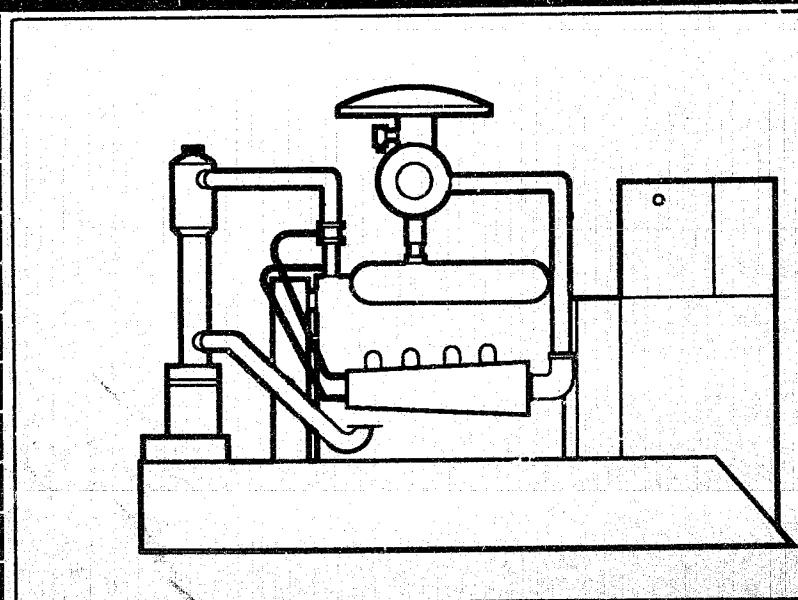


Onan

PARTS CATALOG

ENTX Generating Set



**928-0225
2-92 (Spec B)
Replaces 8-90 (Spec B)
Printed in U.S.A.**

Introduction

This Parts Manual applies to the Standard Sets Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Set are determined by FACING the FRONT of the Set (Engine End).

Set Data Table

MODEL IDENTIFICATION	RATING	RPM	RATING	BATTERY	VOLTAGE
80.0ENTX - */ # 0	80,000 WATTS	1800	RPM	12	VDC
100.0ENTX - */ # 0	100,000 WATTS	1800	RPM	12	VDC

Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
L (15)	120/240	60	12	1	+
L (15)	120/208	60	12	3	+
	120/240	60	12	3	
	127/220	60	12	3	
	139/240	60	12	3	
	240/416	60	12	3	
	254/440	60	12	3	
	277/480	60	12	3	
H (9X)	347/600	60	4	3	
Z (515)	110/220	50	12	1	+
	115/230	50	12	1	
Z (515)	110/190	50	12	3	+
	110/220	50	12	3	
	115/200	50	12	3	
	115/230	50	12	3	
	120/208	50	12	3	
	127/220	50	12	3	
	220/380	50	12	3	
	230/400	50	12	3	
	240/416	50	12	3	
	254/440	50	12	3	

* - Voltage Codes follow Model Letter designations.

- Specification Number: Number 1 is Standard, all others indicate variations.

@ - Specification Letter: Letter advances (A to B, B to C, etc) with major manufacturing changes.

+ - The Stators are Reconnectible.

Engine Replacement Parts

All Engine replacement parts must be ordered from the Engine Manufacturer, except those modified or added by Onan. When ordering engine parts, refer to the Engine Manufacturer's Nameplate and supply the Model, Specification, Serial Numbers and other available information. Refer to the Engine Manufacturer's Manuals for your nearest authorized Parts Distributor; or contact the Onan Distributor from whom you purchased this set, for assistance in ordering the replacement parts. Ford Model Number for this set is LSG-875I-6005-A.

Index

- Actuator 15
Adapter, Cooler - Oil 45
Adapter, Filter - Oil 11
Adapter, Generator 9
Adapter, Pipe - Hex 11
Adapter, Pulley 19
Alternator 12
Arm, Adjusting - Alternator 12

Base, Housing - Thermostat 19
Bearing, Ball 39
Bell, End 39
Belt, Drive - Alternator 12
Belt, Set 19
Block, Terminal 33
Board, Delay - Time 31
Board, Monitor - Engine 31
Board, Sensor - Magnetic 31
Board, Terminal 9
Body Assembly - Throttle 17
Box, Control 33
Brace 19
Bracket, Cooler - Oil 45
Bracket, Guard - Belt 19,45
Bracket, Mounting - Alternator 12
Bracket, Mounting - Controller 15
Bracket, Mounting - Hub 19
Bracket, Mounting - Water Heater 21
Bracket, Mounting - Terminal Board 9
Bracket, Mounting - Engine Control 31
Bracket, Mounting - Current Transformer 35
Bracket, Mounting - Watt Transducer 42
Bracket, Mounting - Circuit Breaker 43
Brackets, Mounting - Engine 28
Breaker, Circuit 33,42
Bushing, Cable 36

Cable, Battery 7
Cable, Electrical 34,41
Cap, Radiator 19
Cap, Rain 25
Capacitor 12
Charger, Turbo 17
Chassis 28
Clamp, Loop 31,33,40
Cleaner, Air 4
Cock, Drain 19,21
Components, Alternator 13
Components, Rotor - Exciter 40
Connector, Hose 4,21
Contact Assembly, Generator 39
Contactor 21
Control, Engine 31
Control, Generator 33
Controller 15
Cooler, Oil 11,45
Cover, Belt Guard - Remote Radiator 45
Cover, Belt Guard - Remote Radiator 45
Cover, Breaker - Circuit 43
Cover, Breaker - Circuit 43
Cover, Housing - Thermostat 19
Cover, Mounting Hole - Switch 31
Cover, Starter 7
Cover, Thermostat 34
Cross, Pipe 7

Dial, Scale 42
Disk, Drive 39
Door, Control - Engine 31
Door, Control - Generator 33
Doors, Housing - Set 27

Elbow, Mounting - Turbo Charger 17
Elbow, Pipe - Reducing 90° 23
Elbow, Pipe - Street 90° 4,11
Elbow, Pipe - Street 45° 21
Element, Cleaner - Air 4
Engine Parts, Left Side 7
Engine Parts, Right Side 9
Exhaust System 23

Fan, Alternator 12
Fan, Cooling - Rotor 39
Fan, Radiator 19
Filter, Oil 11
Fitting, Restrictor - Hex 17
Flange, Oil - Drain 11
Flange, Pipe 23
Foam, Insulation - Thermal 27
Frame, Holddown - Battery 28
Fuel System, Gas - Natural 17
Fuse, Cartridge 31

Gasket, Body - Throttle 17
Gasket, Flange - Oil 11
Gasket, Flange - Pipe 23
Gasket, Housing - Thermostat 19
Gasket, Mixer - Air/Gas 17
Gasket, Tube - Exhaust 23
Gauge, Pressure - Oil 31
Gauge, Temperature - Oil 31
Gauge, Temperature - Water 31
Gear, Ring 9
Generator 39
Governor, Electronic 15
Grille, Guard - Radiator 19
Grille, Housing - Control 36
Grille, Housing - Set 27
Grommet 33,40
Guard, Belt 19
Guard, Belt - Remote Radiator 45
Guard, Fan 19
Guard, Radiator 19

Harness, Wiring 7,15,31,33,42
Heater, Control 33
Heater, Electrical 21,34,41
Heater, Generator 41
Heater, Water 21
Holder, Lamp 31
Hose, Oil 45
Housing, Connector 7,31
Housing, Control 36
Housing, Set 27
Hub 19

Joint, Ball 15

Key 27
Knob 33

Index

Lamp, Incandescent 31
Latch, Housing - Set 27
Lever 15
Light, Indicator - Dual 33

Manifold, Exhaust - Left and Right 23
Meter, Ampere/Frequency/Watt 33,42
Meter, Tach 31
Meter, Totalizing - Time 31
Meter, Volt 33
Mixer, Air/Gas 17
Module, Indicator - Fault 31
Mount, Vibration 28,33,42
Muffler, Exhaust 25

O-Ring 17

Panels, Breaker - Circuit 43
Panels, Housing - Set 27
Pick Up, Magnetic 15
Plate, Mounting - Water Heater 21
Plate, Oil - Return 11
Plug, Button 31
Plug, Pipe - Square Head 7,23
Potentiometer, Control - Speed 31
Pulley 12,19

Radiator 19
Radiator, Remote 45
Receptacle, Fastener 33
Rectifier, Positive/Negative 40
Regulator, Pressure - Gas Vapor 17
Regulator, Voltage 33
Relay 33
Rheostat 33
Rotor Assembly, Generator 39
Rotor, Exciter 40

Saddle 36
Screen, Air - Generator 39
Seal, O-Ring 39
Sender, Pressure - Oil 7

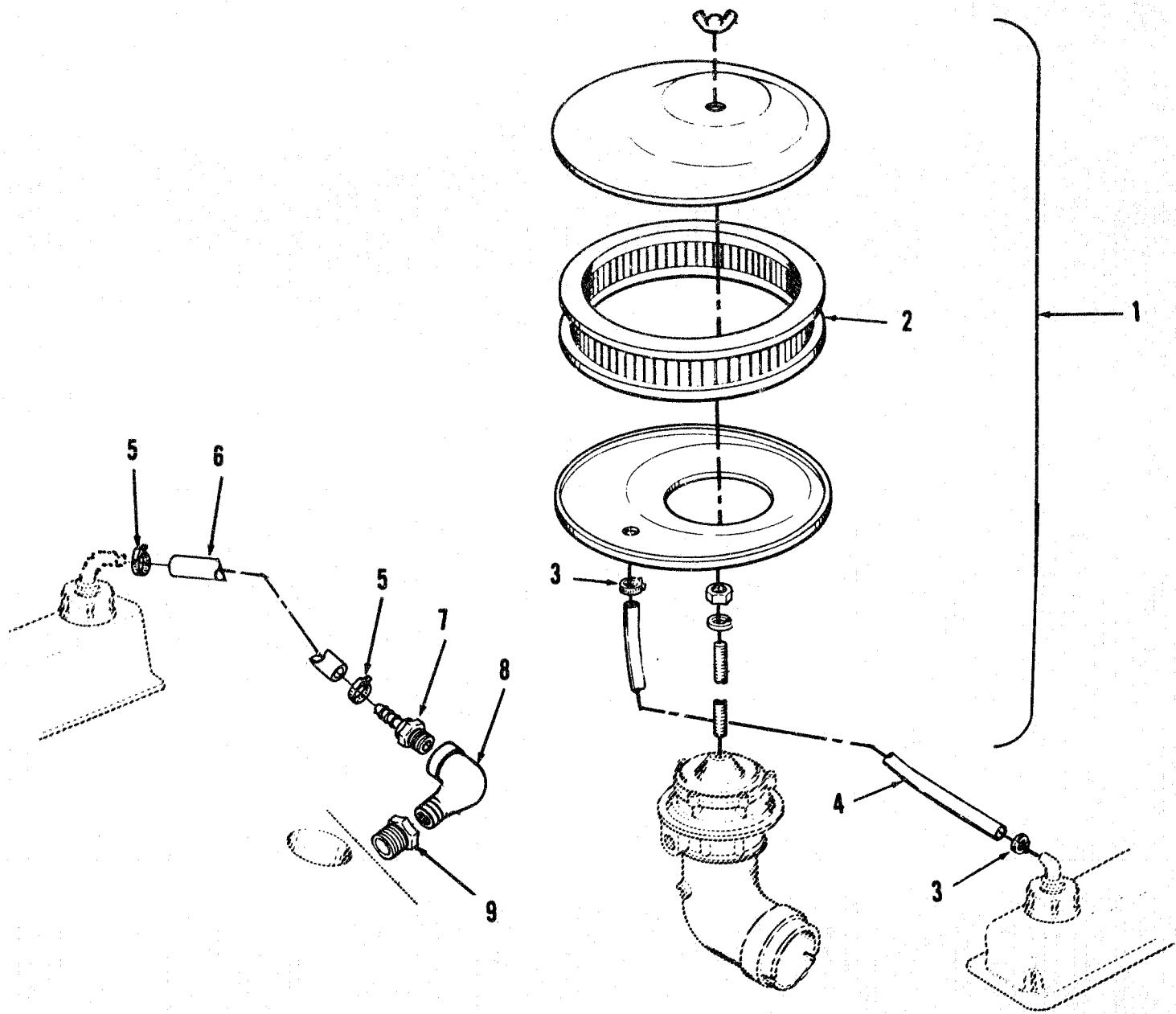
Sender, Temperature - Oil 9
Sender, Temperature - Water 7
Shield, Heat 25
Shroud, Fan 19
Sink, Heat 40
Socket, Relay 33
Solenoid 7
Spacer, Adjusting Arm - Alternator 12
Spacer, Cover - Remote Radiator 45
Spacer, Mounting Bracket - Alternator 12
Spacer, Shield - Elect. 25
Spacer, Sleeve - Heater 34
Spacer, Sleeve - Rotor 39
Stator, Exciter 39
Strap, Electrical - Ground 28,33
Strip, Marker 33
Stud 15,23
Switch, Pressure - Oil 7
Switch, Push - Reset/Panel Lamp 31
Switch, Push - Run/Stop/Remote 31
Switch, Rotary 33
Switch, Temperature - Engine 9
Switch, Thermostatic - Water 9
Switch, Thermostatic 21

Tee, Pipe - Street 7
Terminal, Lug - Ground 28
Thermostat 19,34
Transducer, Watt 42
Transformer, Current 33,35
Tube Assembly, Exhaust 23
Tube, Exhaust 25
Tube, Water - Upper and Lower 19
Turbocharger 23

Valve 11

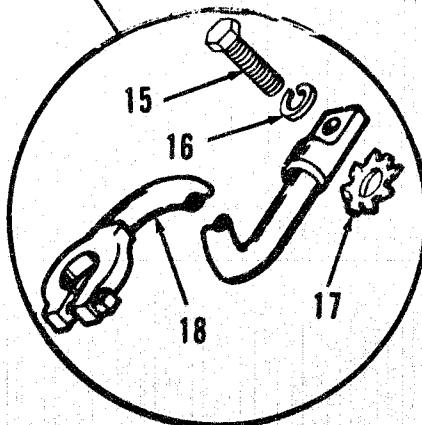
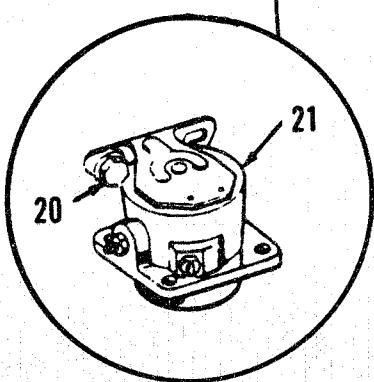
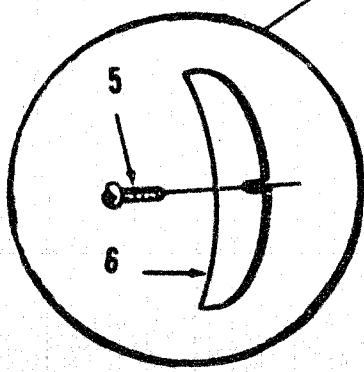
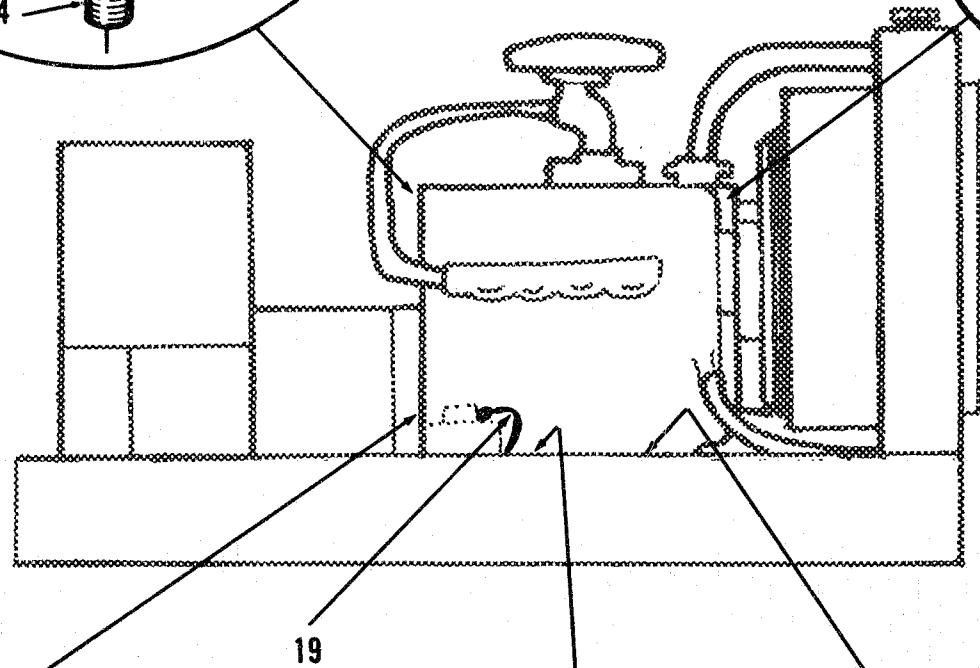
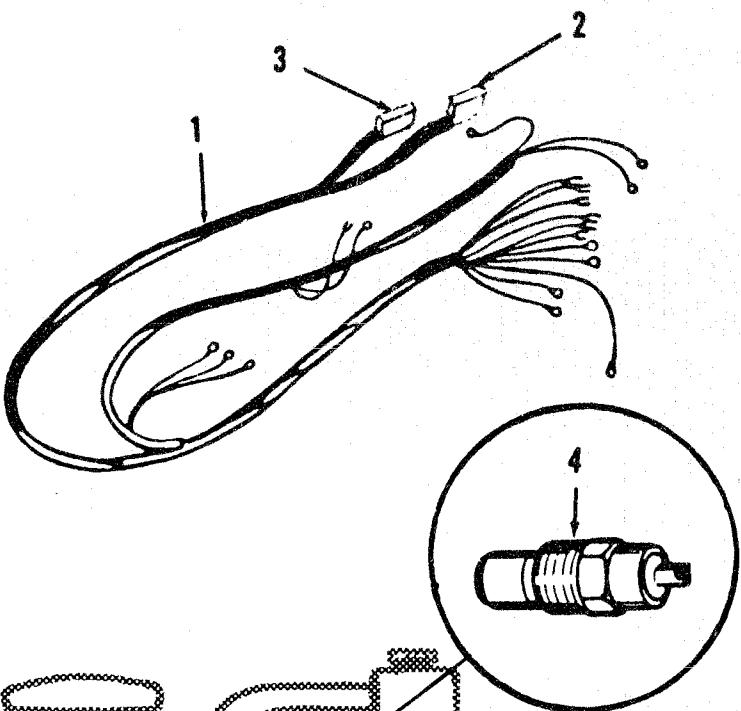
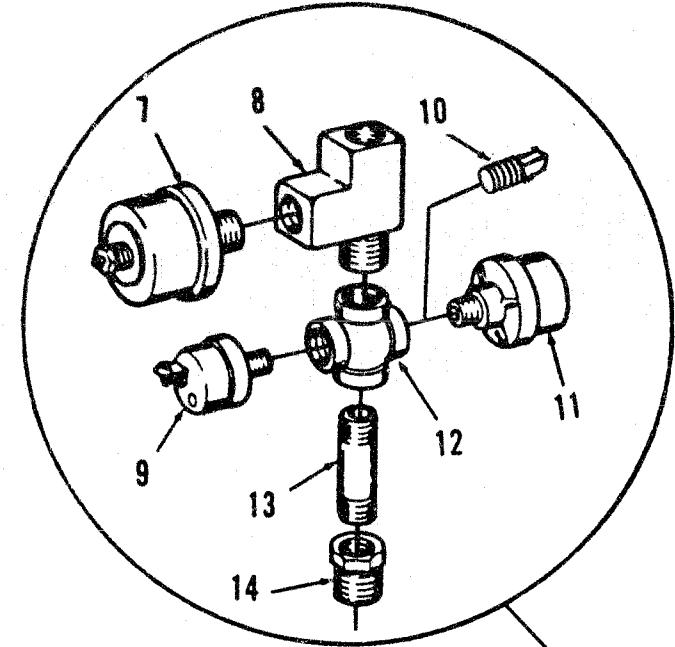
Wheel, Fly 9
Wrapper, Generator 36
Wrapper, Breaker - Circuit 43

Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1724	1	Cleaner, Air (Includes Element)	5	503-1133	2	Clamp, Hose
2	140-1837	1	Element	6	503-1506	-	Hose, Bulk (1 Ft Required)
3	503-0547	2	Clamp, Hose	7	502-1012	1	Connector, Hose
4	503-1093	1	Hose	8	505-0011	1	Elbow, Pipe - Street, 90 DEG
				9	505-0017	1	Bushing, Reducer - Hex

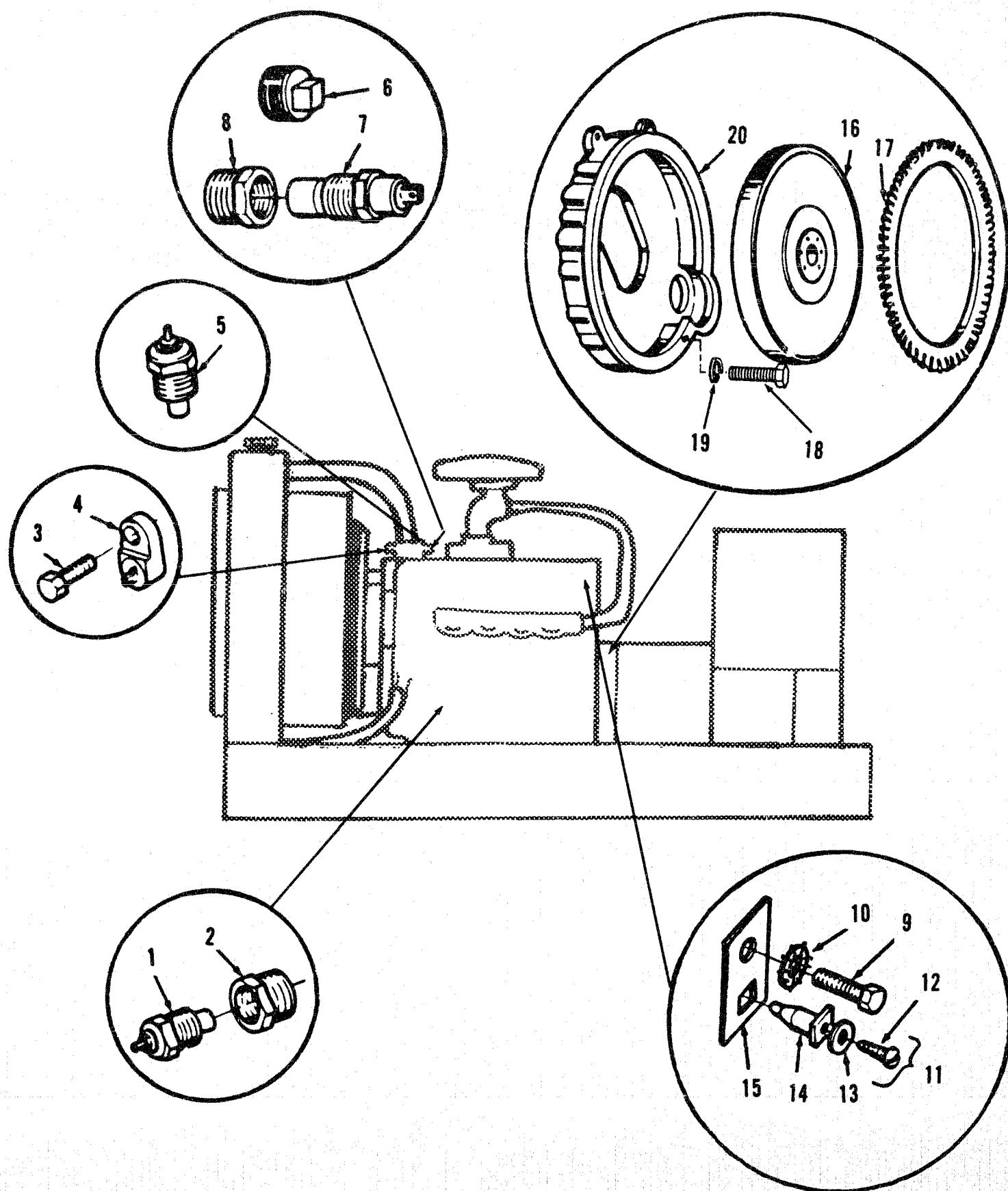
Miscellaneous Engine Parts Left Side



Miscellaneous Engine Parts Left Side

REF. NO.	PART NO.	QTY USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring (Includes Connectors)	10	505-0057	1	Plug, Pipe - Square Head
	338-2027	1	Use with Motorola Alternator	11	309-0545	1	Switch, Pressure - Oil (S6)
	338-2628	1	Use with Bosch Alternator	12	505-0763	1	Cross, Pipe
2	323-1304	1	Housing, Connector - 6 Place	13	505-0104	1	Nipple, Pipe
	323-1200	6	Contact, Pin	14	505-0007	1	Bushing, Reducer - Hex
3	323-1306	1	Housing, Connector - 8 Place	15	800-0071	1	Screw, Cap - Hex Head (7/16-14 x 1")
	323-1200	8	Contact, Pin	16	850-0055	1	Washer, Lock - Spring (7/16")
4	193-0247	1	Sender, Temperature - Water (E2)	17	856-0013	1	Washer, Lock - EIT (1/2")
	812-0075	1	Screw, Machine - Round Head (#8-32 x 1/4")	18			Cable, Battery
				416-0019		1	Positive
				416-0530		1	Negative
6	191-0773	1	Cover, Starter	19	226-3413	1	Lead, Electrical
7	193-0244	1	Sender, Pressure - Oil (E1)	20	821-0018	2	Screw, Self-locking - Hex
8	502-0058	1	Tee, Pipe - Street, Brass				Washer Head (1/4-20 x 5/8")
9	309-0544	1	Switch, Pressure - Oil (S1)	21	307-1166	1	Solenoid - 12 VDC (K6)

Miscellaneous Engine Parts Right Side

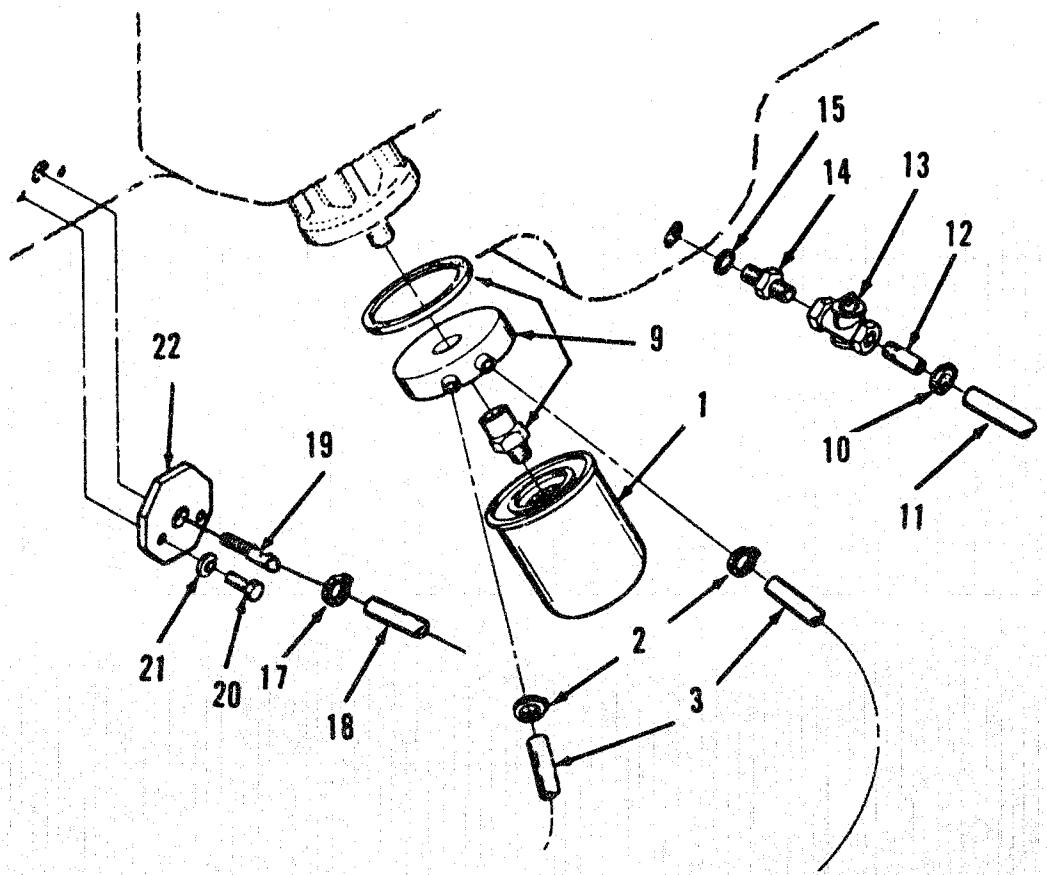
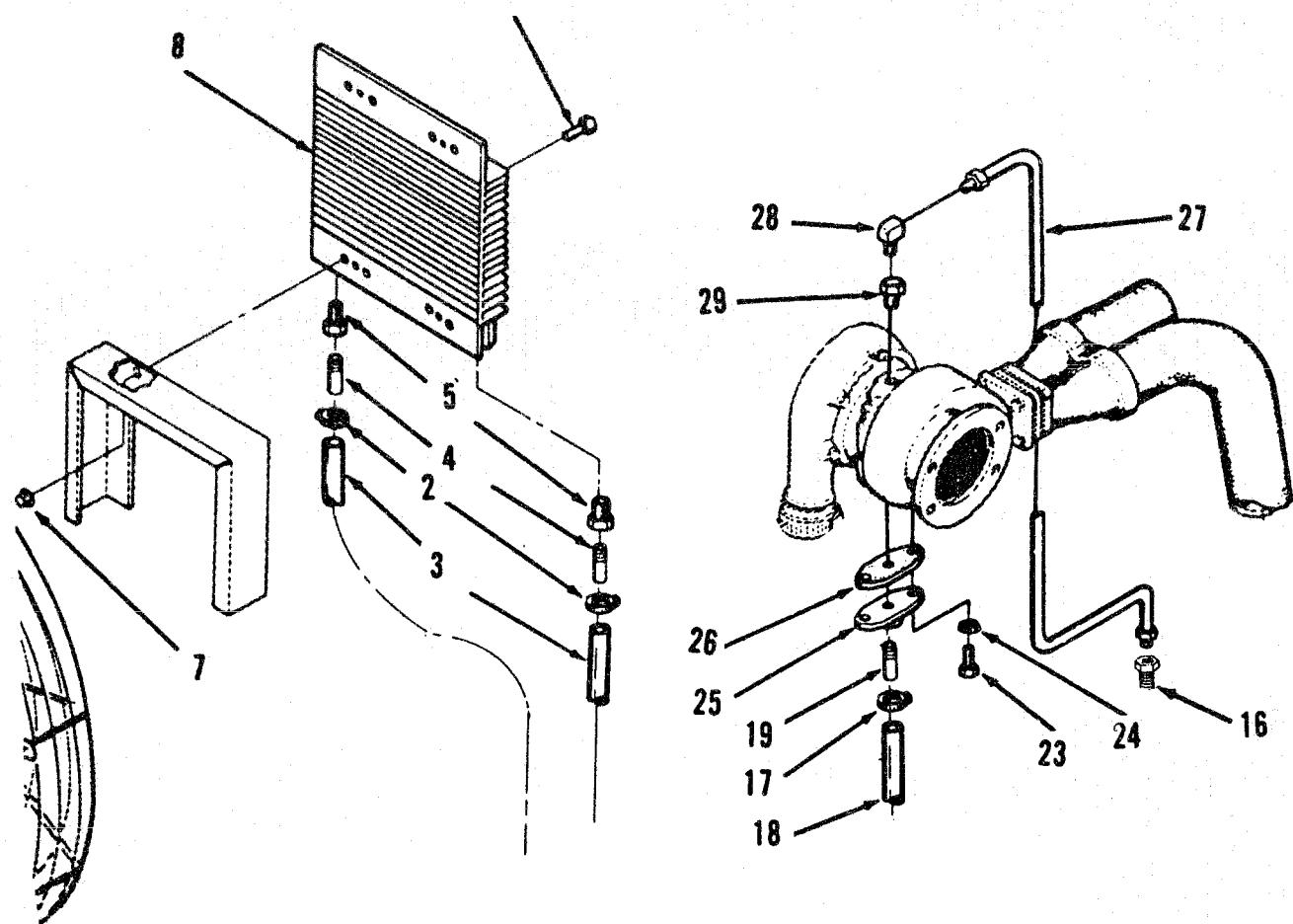


Miscellaneous Engine Parts Right Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0249	1	Sender, Temperature - Oil (E5)	11	332-1292	1	Board, Terminal (Includes Parts Marked *)
2	505-0007	1	Bushing, Reducer - Hex	12	809-0035	1	*Screw, Thread Cutting - Round Head (#8 x 3/4")
3	821-0029	1	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")	13	508-0015	1	*Washer, Insulating
4	309-0269	1	Switch, Temperature - Engine (S5)	14	870-0196	1	*Nut, Insulating
5	309-0179	1	Switch, Thermostatic - Water (S2)	15	332-1281	1	*Bracket, Mounting
6	505-0130	1	Plug, Pipe - Square Head	16	104-1097	1	Wheel, Fly (Includes Ring Gear)
7	309-0178	1	Switch, Thermostatic - Water (S7)	17	104-0723	1	Gear, Ring
8	505-0499	1	Bushing, Reducer - Hex	18	800-0072	8	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
9	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")	19	850-0055	8	Washer, Lock - Spring (7/16")
10	853-0018	1	Washer, Lock - EIT (3/8")	20	231-0260	1	Adapter, Generator

* - Parts included in 332-1292 Terminal Board.

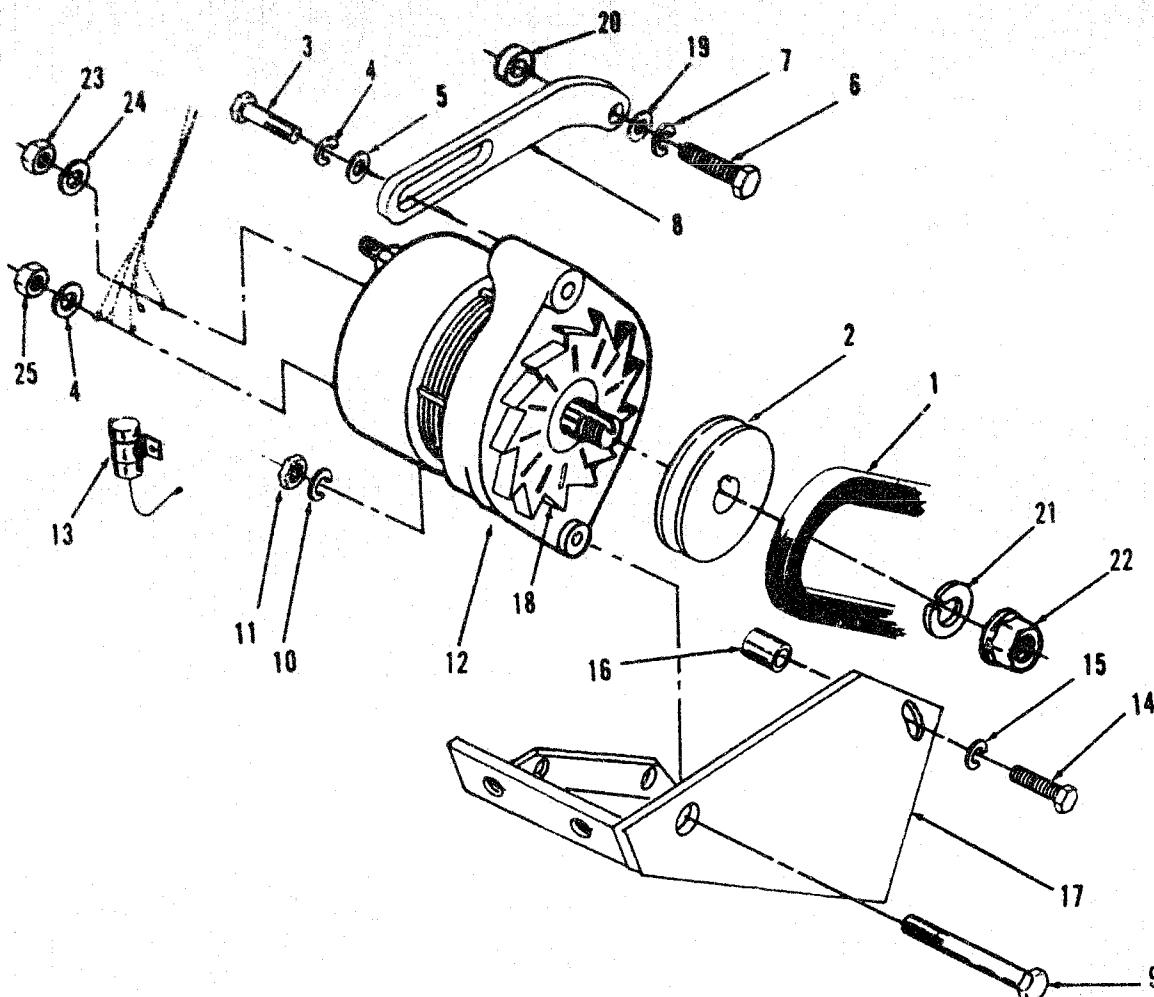
Oil Lube System



Oil Lube System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	122-0193	1	Filter, Oil	16	502-0003	1	Connector, Inverted Male - Hex
2	503-1133	4	Clamp, Hose	17	503-0547	2	Clamp, Hose
3	503-1099	2	Hose	18	503-1097	2	Hose
4	505-0302	2	Nipple, Pipe - Half	19	505-0135	2	Nipple, Pipe - Half
5	505-0018	2	Bushing, Reducer - Hex	20	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")
6	821-0016	3	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")	21	850-0045	2	Washer, Lock - Spring (5/16")
7	870-0257	3	Nut, Self-locking - Hex Washer Head (5/16-18)	22	121-0036	1	Plate, Oil - Return
8	102-1113	1	Cooler, Oil	23	800-0050	2	Screw, Cap - Hex Head (3/8-16 x 7/8")
9	102-1097	1	Adapter (Includes O-Ring, Housing with Thermostat, and Female/Male Hex Adapter)	24	850-0050	2	Washer, Lock - Spring (3/8")
10	503-0032	2	Clamp, Hose	25	145-0534	1	Flange, Oil - Drain
11	503-1188	1	Hose	26	145-0535	1	Gasket
12	505-0135	2	Nipple, Pipe - Half	27	121-0037	1	Line, Oil
13	504-0030	1	Valve	28	502-0002	1	Elbow, Pipe - Street, 90 DEG., Brass
14	502-1013	1	Adapter, Pipe - Hex	29	505-0007	1	Bushing, Reducer - Hex
15	102-1320	1	Gasket				

Alternator

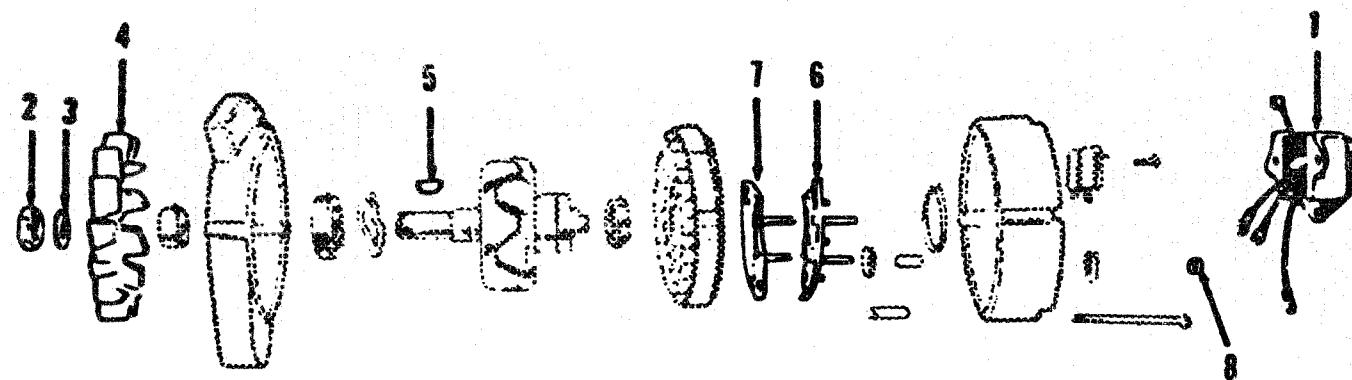


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0092	1	Belt, Drive Pulley	12			Kit, Alternator (See Separate Page for Components)
2	191-1099	1	Used with Motorola Alternator	13	191-1388	1	Motorola
3	191-2032	1	Used with Bosch Alternator	14	191-1983-01	1	Bosch (Begin Spec B)
4	800-0027	1	Screw, Cap - Hex Head	15	312-0201	1	Capacitor
5	800-2058	1	Used with Motorola Alternator (5/16-18 x 7/8")	16	800-0052	1	Screw, Cap - Hex Head
6	850-0045	1	Used with Bosch Alternator (M8 x 1-1/4 x 25)	17	800-0058	1	Used with Motorola Alternator (3/8-16 x 1-1/2")
7	850-2008	2	Washer, Lock - Spring	18	850-0050	1	Used with Bosch Alternator (3/8-16 x 3")
8	526-0115	1	Used with Motorola Alternator (5/16")	19	130-1805	1	Washer, Lock - Spring (3/8")
9	526-2106	1	Used with Bosch Alternator (M8)	20	191-2028	1	Spacer
10	800-0050	1	Washer, Flat	21	191-1792	1	Used with Motorola Alternator
11	850-0050	1	Used with Bosch Alternator	22	191-2031	1	Used with Bosch Alternator
12	191-0101	1	Fan (Used on Bosch Alternator)	23	191-1981	1	Bracket, Mounting
13	800-0095	1	Arm, Adjusting - Alternator	24	526-0029	1	Used with Motorola Alternator
14	800-2097	1	Screw, Cap - Hex Head	25	370-4055	1	Used with Bosch Alternator
15	850-0060	1	(3/8-16 x 1")	26	851-0039	1	Fan Clutch
16			Washer, Lock - Spring (3/8")	27	870-2161	1	Washer, Flat (3/8)
17			Used with Bosch Alternator	28	850-2006	2	Spacer, Arm - Adjusting
18			(M10 x 1-1/2 x 80)	29	850-2005	2	Washer, Lock - Spring
19			Washer, Lock - Spring (1/2")	30	860-2008	1	Nut, Self-Locking - Hex
20			(Used with Motorola Alternator Only)				Washer Head (M16)
21			Nut, Hex				#Nut, Hex (M5)
22			Used with Motorola Alternator (1/2-13)				Washer, Lock - Spring (M5)
23			Used with Bosch Alternator (M10 x 1-1/2) (Self-Locking Hex Washer Head)				*Nut, Hex (M8)

- Used to attach the wiring harness to the alternator D+ terminal and to attach the ground wire to one of the four alternator housing assembly studs.

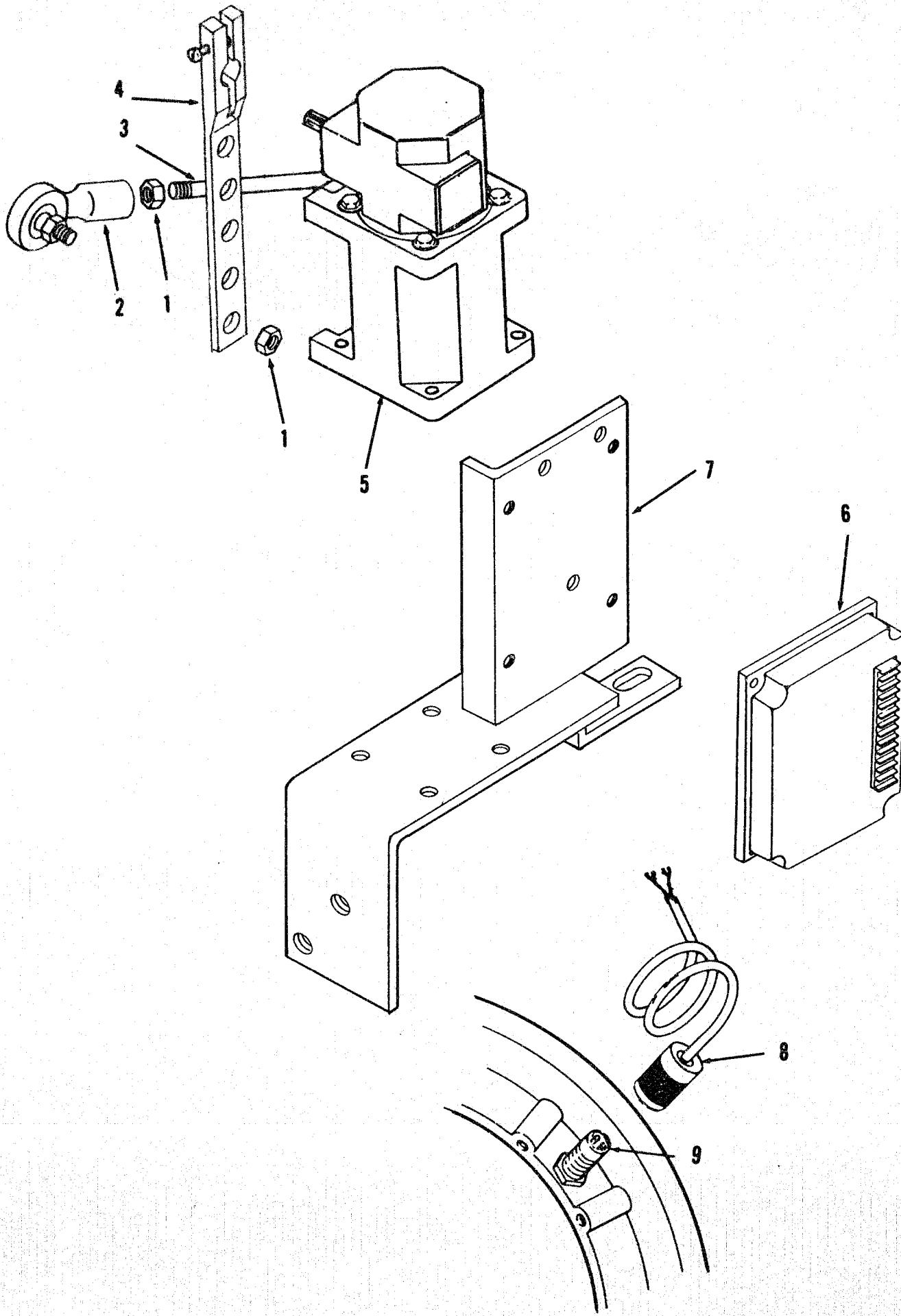
* - Used to attached the wiring harness lead to the B+ terminal of the alternator.

Alternator Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-1388	1	Alternator Kit - Complete	5	515-0093	1	Key, Woodruff (#5)
1	191-1390	1	Regulator, Voltage - 12 VDC	6	191-0661	1	Diode Assembly - Positive
2	868-0007	1	Nut, Hex (5/8-18)	7	191-0662	1	Diode Assembly - Negative
3	850-0070	1	Washer, Lock - Spring (5/8")	8	862-0001	2	Nut, Hex (1/4-20)
4	191-0943	1	Fan, Cooling				

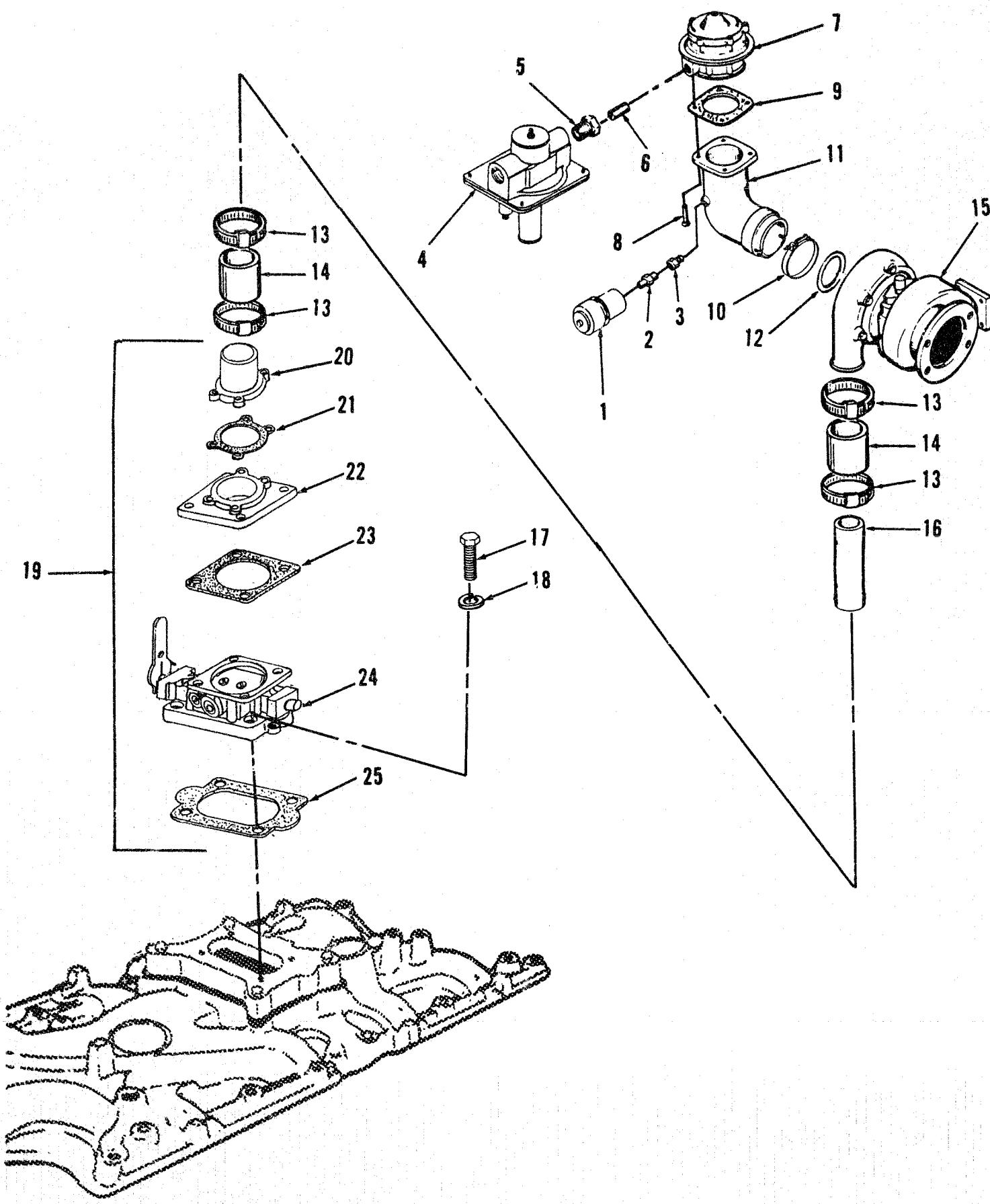
Electronic Governor



Electronic Governor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	115-0025	4	Nut, Hex (1/4-28)	7	150-2163	1	Bracket, Mounting
2	150-1995	2	Joint, Ball	800-0054		1	Screw, Cap - Hex Head (3/8-16 x 2")
3	520-0967	1	Stud	800-0072		1	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
4	150-2145	1	Lever	800-0091		1	Screw, Cap - Hex Head (1/2-13 x 1-1/4")
5	151-0625	1	Actuator	850-0050		1	Washer, Lock - Spring (3/8")
	114-0023	4	Screw, Cap - Hex Head (1/4-20 x 1 1/4")	850-0055		1	Washer, Lock - Spring (7/16")
	870-0212	4	Nut, Self-locking - Hex Washer Head (1/4-20)	850-0060		1	Washer, Lock - Spring (1/2")
6	151-0624	1	Controller	8	151-0629	1	Harness, Wiring
	813-0098	4	Screw, Machine - Round Head (#10-32 x 3/8")	9	151-0433	1	Pick Up, Magnetic
	850-0030	4	Washer, Lock - Spring (#10)				

Natural Gas Fuel System

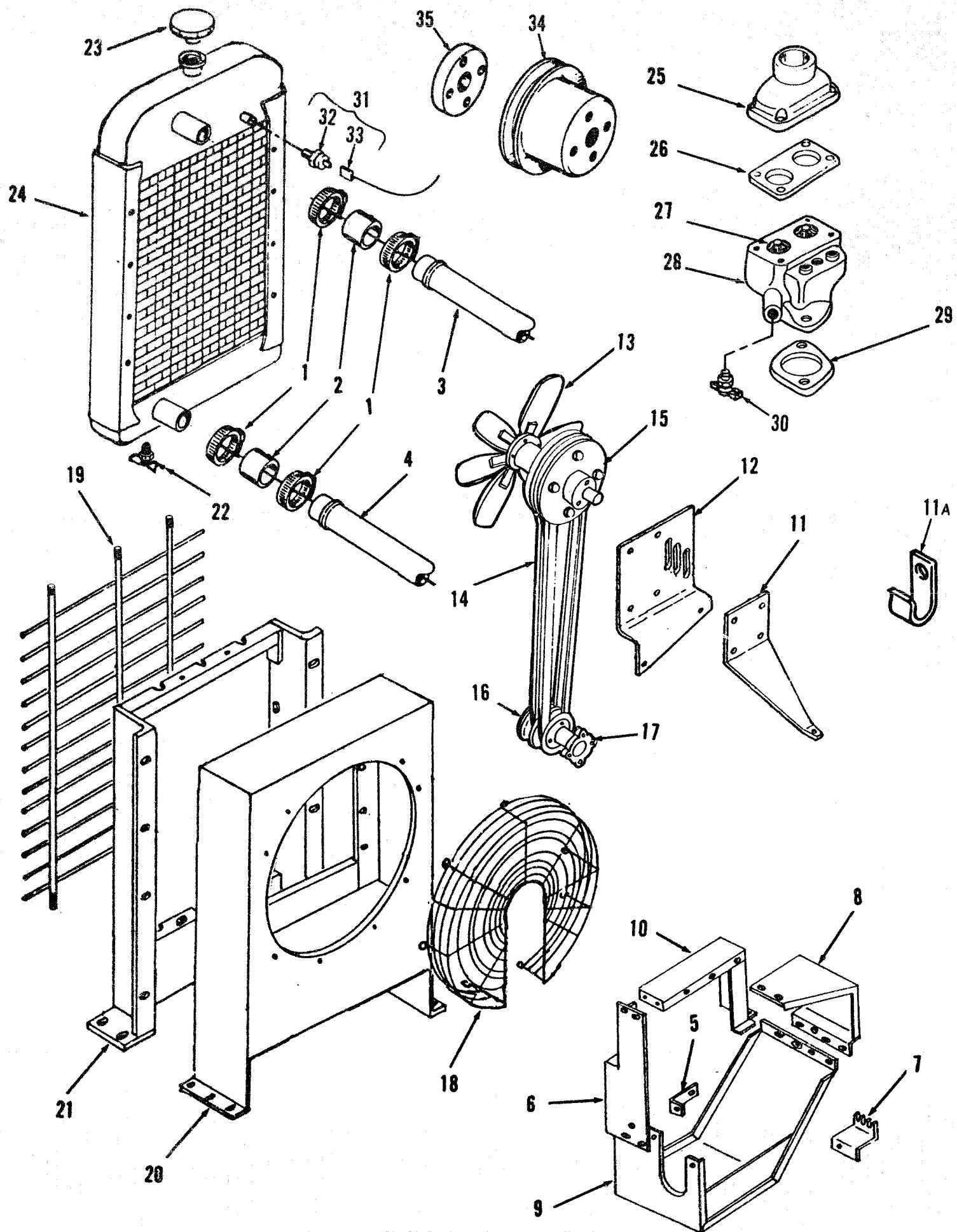


Natural Gas Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1548	1	Indicator, Service - Air	18	850-0045	4	Washer, Lock - Spring (5/16")
2	140-1260	1	Fitting, Restrictor - Hex	19	145-0577	1	Body Assembly, Throttle (Includes Parts Marked *)
3	505-0007	1	Bushing, Reducer - Hex	20	145-0576	1	*Adapter (Includes Screws and Gasket)
4	148-0601	1	Regulator, Pressure - Gas Vapor		145-0585	4	* Screw
5	505-0129	1	Bushing, Reducer - Hex	21	145-0583	1	*Gasket
6	505-0102	1	Nipple, Pipe	22	145-0575	1	*Adapter (Includes Screws and Gasket)
7	145-0532	1	Mixer, Air/Gas (Includes Screw and Gasket)		145-0585	4	* Screw
8	145-0585	4	Screw	23	145-0540	1	*Gasket
9	145-0540	1	Gasket	24	145-0578	1	*Body, Throttle (Includes Screws, Body Gasket and Mounting Gasket)
10	503-0998	1	Clamp, T Bolt		145-0585	4	*Screw
11	145-0590	1	Elbow, Mounting - Turbo Charger		145-0587	1	*Gasket - Body
12	509-0165	1	O-Ring		145-0586	1	*Gasket - Mounting
13	503-1508	4	Clamp, Hose				
14	503-1507	2	Hose				
15			Charger, Turbo				
	127-0376	1	60 Hertz 1800 RPM Set				
	127-0380	1	50 Hertz 1500 RPM Set				
16	140-2114	1	Tube				
17	800-0029	4	Screw, Cap - Hex Head (5/16-18 x 1-1/8")				

* - Parts Included in 145-0577 Throttle Body Assembly

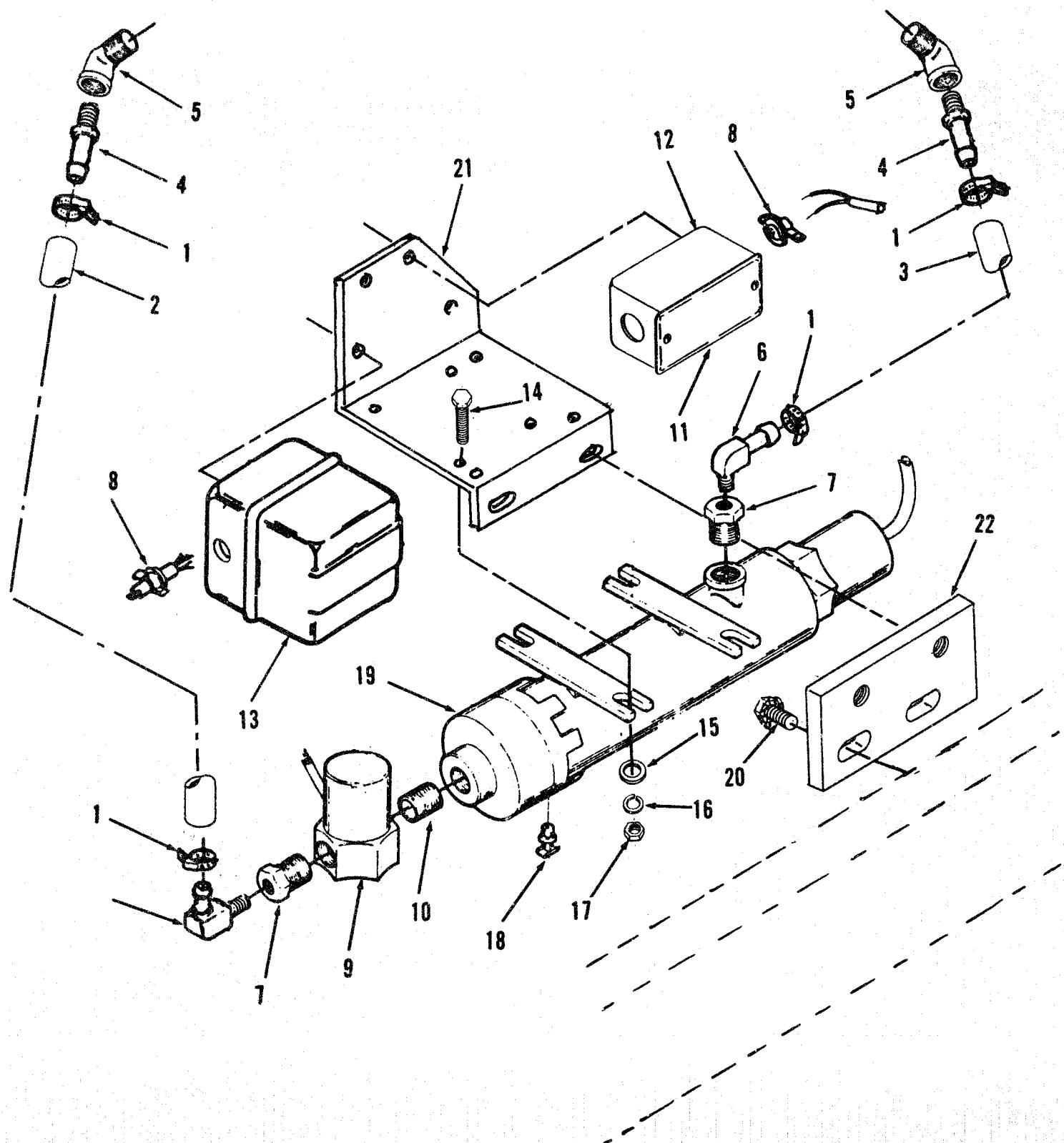
Radiator Cooling System



Radiator Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1141	8	Clamp, Hose	18	130-0986	1	Guard, Fan
2	503-0571	4	Hose, Rubber		821-0018	8	Screw, Self-locking - Hex
3	130-1988	1	Tube, Water - Upper				Washer Head (1/4-20 x 5/8")
4	130-1999	1	Tube, Water - Lower	19	130-2984	1	Grille
5	130-3003	1	Bracket		870-0281	6	Nut, Self-locking - Hex
	821-0029	1	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")	20	130-2987	1	Washer Head (3/8-16)
6	130-2997	1	Guard, Belt		821-0028	8	Shroud, Fan
	821-0029	4	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")		821-0029	6	Screw, Self-locking - Hex
7	130-3002	1	Bracket				Washer Head (3/8-16 x 3/4")
	821-0029	1	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")		870-0281	6	Nut, Self-locking - Hex
8	130-2998	1	Guard, Belt	21	130-2991	1	Washer Head (3/8-16)
	821-0029	4	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")		821-0018	8	Guard, Radiator
9	130-3001	1	Guard, Belt		821-0029	4	Screw, Self-locking - Hex
10	130-2996	1	Guard, Belt				Washer Head (3/8-16 x 1/2")
11	130-0973	1	Brace		870-0281	4	Screw, Self-locking - Hex
	821-0029	5	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")	22	504-0003	1	Washer Head (3/8-16 x 3/4")
	870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16)	23	130-2344	1	Cock, Drain
11A	148-0274	1	Bracket, Hose	24	130-2982	1	Cap, Radiator
12	130-0971	1	Bracket, Mounting - Hub	25	309-0477	1	Radiator
	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")		800-0029	4	Cover, Housing - Thermostat
	850-0050	1	Washer, Lock - Spring (3/8-16)				Screw, Cap - Hex Head (5/16-18 x 1-1/8")
	191-0864	1	Spacer	26	309-0479	1	Washer, Lock - Spring (5/16")
13	130-1997	1	Fan	27	309-0476	2	Gasket
	821-0016	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4")	28	309-0478	1	Thermostat
14	511-0153	1	Belt, Set		800-0029	1	Base, Housing - Thermostat
15	130-2983	1	Hub and Pulley Assembly				Screw, Cap - Hex Head (5/16-18 x 1-1/8")
	821-0016	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 3/4	800-0039	1	Screw, Cap - Hex Head (5/16-18 x 3-1/2")	
	862-0016	1	Nut, Hex (1/2-13)	29	130-1024	1	Washer, Lock - Spring (5/16")
	850-0060	1	Washer, Lock - Spring (1/2"	30	504-0005	1	Gasket
	526-0035	1	Washer, Flat (1/2")	31	193-0407	1	Valve, Cock
16	104-1673	1	Pulley	32	193-0322	1	Kit, Low Coolant Level
	800-0028	4	Screw, Cap - Hex Head (1/4-20 x 1-3/8")	33	338-1919	1	Sender, Coolant - Low
	850-0040	4	Washer, Lock - Spring (1/4")	34	132-0261	1	Harness, Coolant - Low
17	130-0968	1	Adapter	35	131-0353	1	Pulley, Pump - Water
							Spacer, Pump - Water

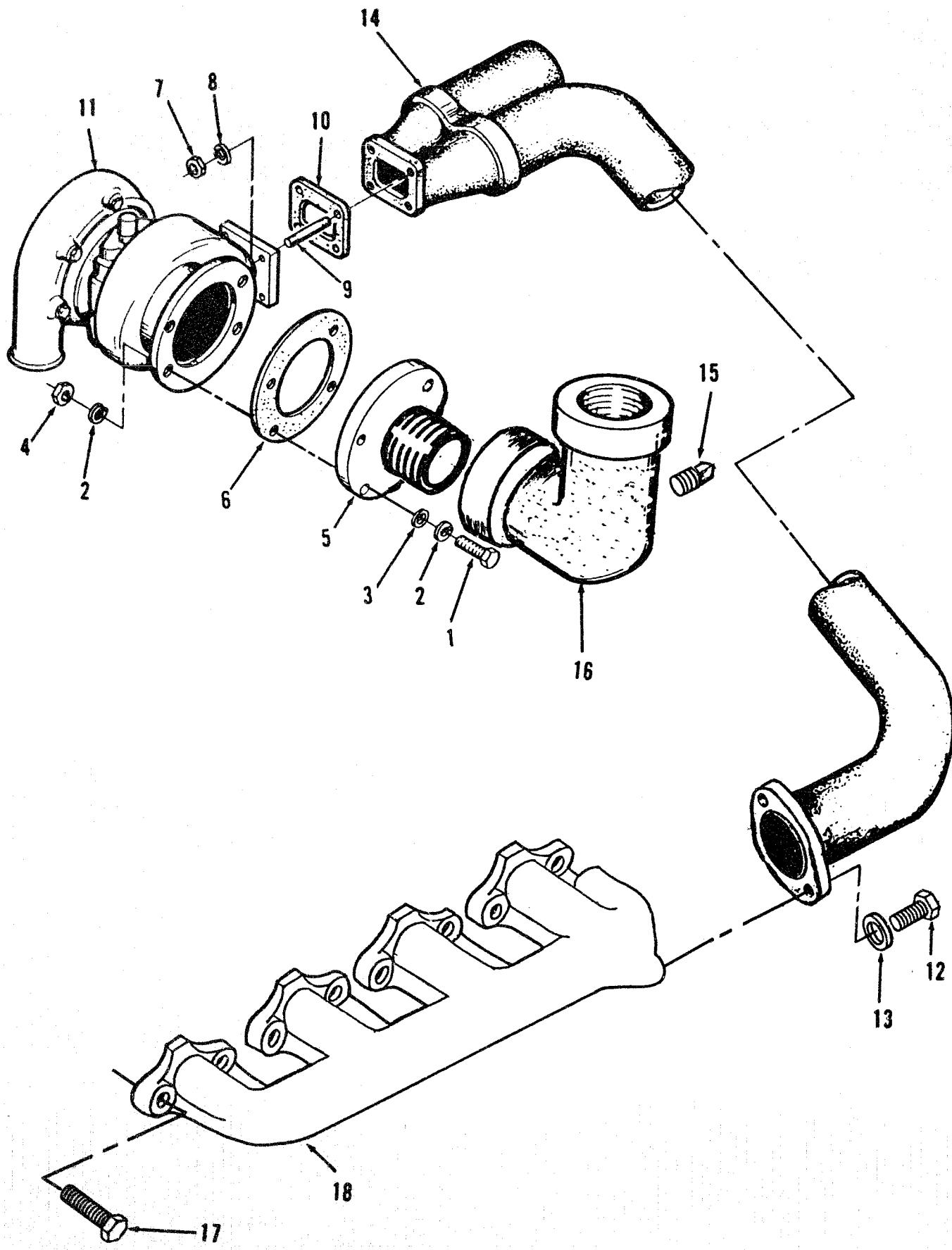
Water Heater



Water Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0183	4	Clamp, Hose	15	526-0018	4	Washer, Flat (1/4")
2	503-0386	-	Hose, Bulk (3 Ft Required)	16	850-0030	4	Washer, Lock - Spring (1/4")
3	503-0386	-	Hose, Bulk (1 Ft Required)	17	862-0001	4	Nut, Hex (1/4-20)
4	502-0613	2	Connector, Hose	18	504-0003	1	Cock, Drain
5	502-0156	2	Elbow, Pipe - Street, 45 DEG	19			Heater, Electrical - 2000 Wat
6	502-0942	2	Connector, Hose - 90 DEG	333-0158		1	115 VAC, 1 Phase
7	505-0455	2	Bushing, Reducer - Hex	333-0167		1	208 VAC, 1 Phase
8	331-0027	2	Clamp, Cable	333-0141		1	230 VAC, 1 Phase
9	309-0304	1	Switch, Thermostatic	333-0147		1	480 VAC, 1 Phase
10	505-0004	1	Nipple, Pipe - Close	333-0148		1	208 VAC, 3 Phase
11	330-0004	1	Cover	333-0146		1	440 VAC, 3 Phase
12	330-0005	1	Box	333-0146		1	480 VAC, 3 Phase
	812-0100	2	Screw, Machine - Round Head (#10-24 x 1/2")	20	821-0029	4	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")
	850-0030	2	Washer, Lock - Spring (#10)	21	130-2851	1	Bracket, Mounting
	860-0011	2	Nut, Hex (#10-24)	22	130-2850	1	Plate, Mounting
13	307-1164	1	Contactor				Terminals (Not Illustrated)
	812-0100	2	Screw, Machine - Round Head (#10-24 x 1/2")	332-0014		2	Terminal - #10
	850-0030	2	Washer, Lock - Spring (#10)	332-0149		5	Terminal - #8
	860-0011	2	Nut, Hex (#10-24)	323-0957		2	Nut, Wire
14	800-0006	4	Screw, Cap - Hex Head (1/4-20 x 3/4")				

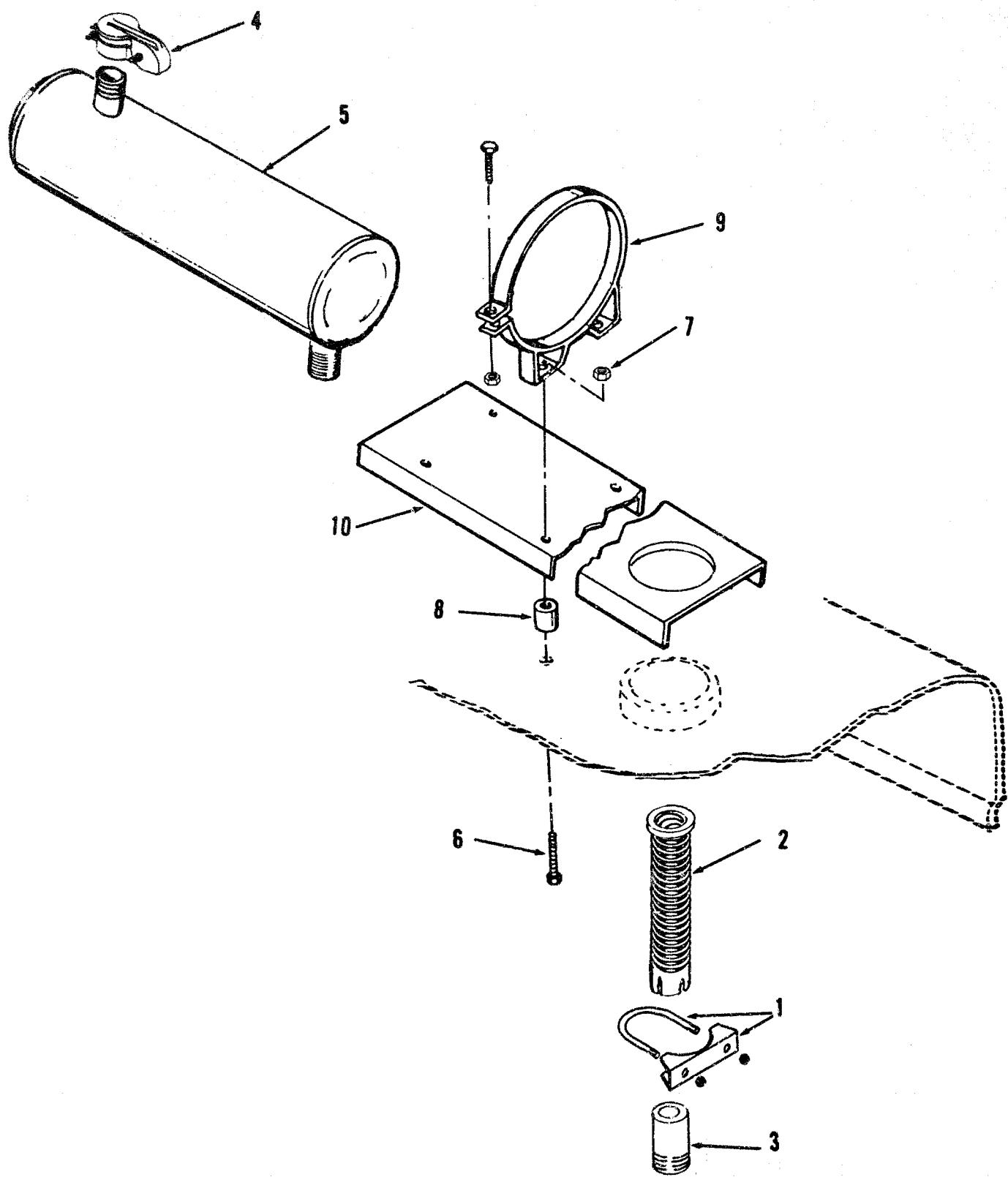
Exhaust System



Exhaust System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0052	4	Screw, Cap - Hex Head (5/16-18 x 1-1/2")	11	127-0376	1	Turbocharger
2	850-0045	8	Washer, Lock - Spring (5/16")	12	127-0380	1	60 Hertz, 1800 RPM Set
3	526-0022	4	Washer, Flat (5/16")	13	800-1507	4	50 Hertz, 1500 RPM Set
4	870-0281	4	Nut, Self-locking - Hex Washer Head (5/16-18)	14	526-0032	4	Screw, Cap - Hex Head, Grade 8 (7/16-14 x 1-1/2")
5	155-2193	1	Flange, Pipe	15	154-2528	1	Washer, Flat (7/16")
6	155-1886	1	Gasket	16	505-0057	1	Tube Assembly, Exhaust
7	862-0003	4	Nut, Hex (3/8-16)	17	505-1369	1	Plug, Pipe - Square Head
8	850-0050	4	Washer, Lock - Spring (3/8")	18	800-0574	16	Elbow, Pipe - Reducing, 90 DEG, Modified
9	520-0925	4	Stud - SST		154-2499	1	Screw, Hex Head - Cam Lock
10	145-0533	1	Gasket		154-2500	1	Manifold, Exhaust Left Side
							Right Side

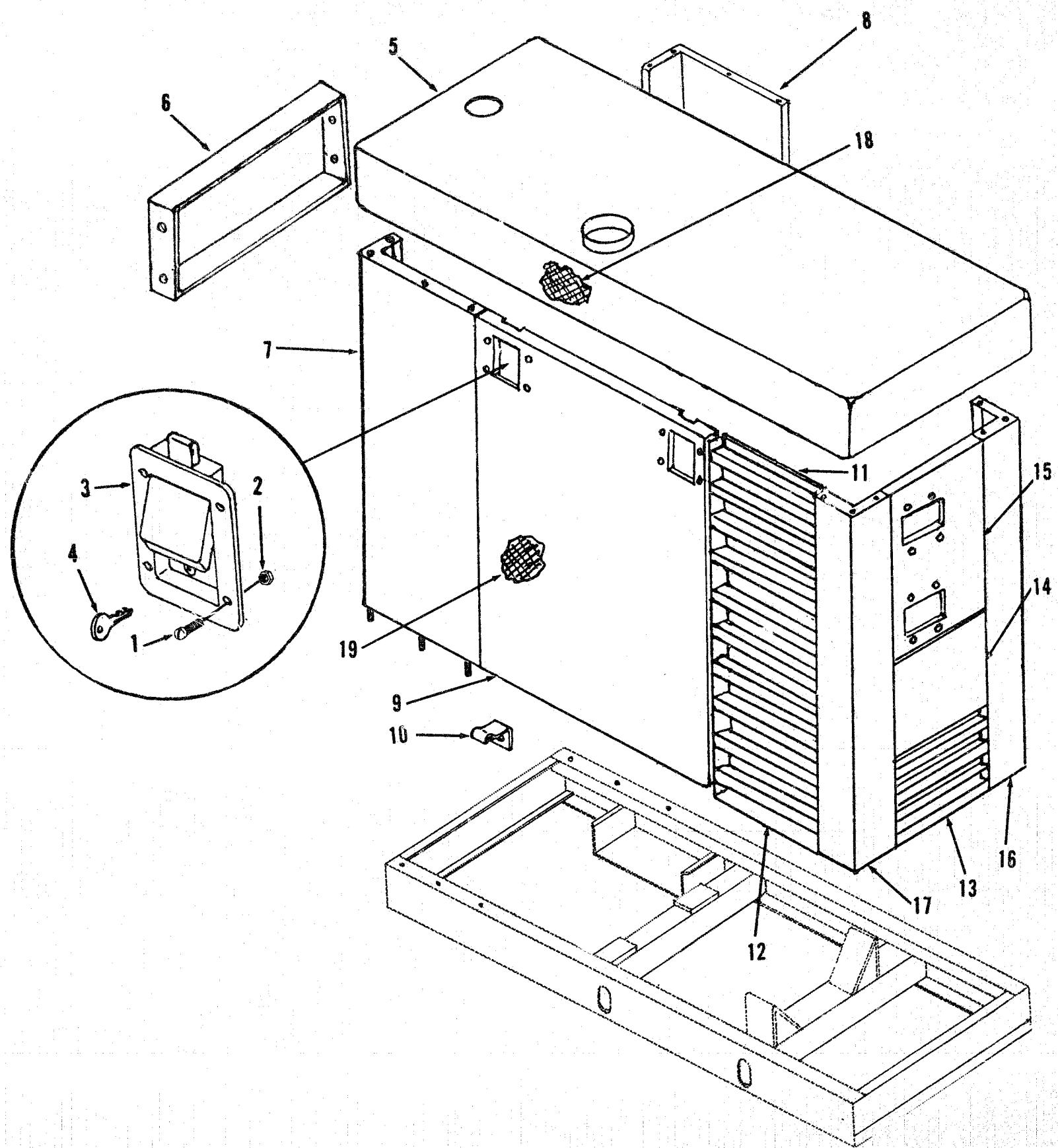
Exhaust Muffler



Exhaust Muffler

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2105	1	Clamp	7	870-0048	4	Nut, Hex (5/16-18)
2	155-2195	1	Tube, Exhaust	8	155-1430	4	Spacer
3	505-0387	1	Nipple, Pipe - Half	9	155-2198	2	Band, Mounting (Includes Screw and Nut)
4	155-2062-07	1	Cap, Rain	10	155-2197	1	Shield, Heat
5	155-2196-01	1	Muffler, Exhaust				
6	800-0036	4	Screw, Cap - Hex Head (5/16-18 x 2-3/4")				

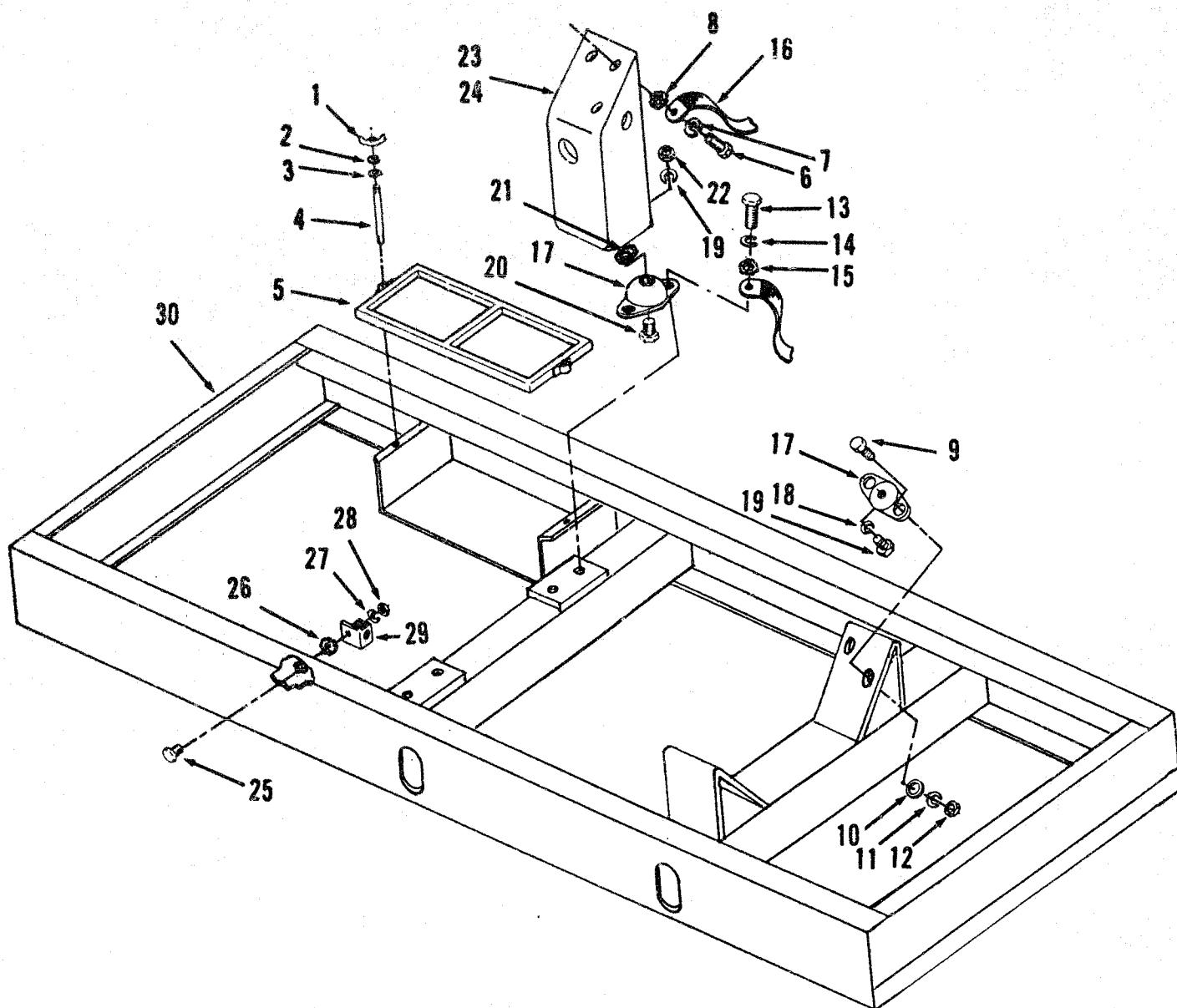
Set Housing



Set Housing

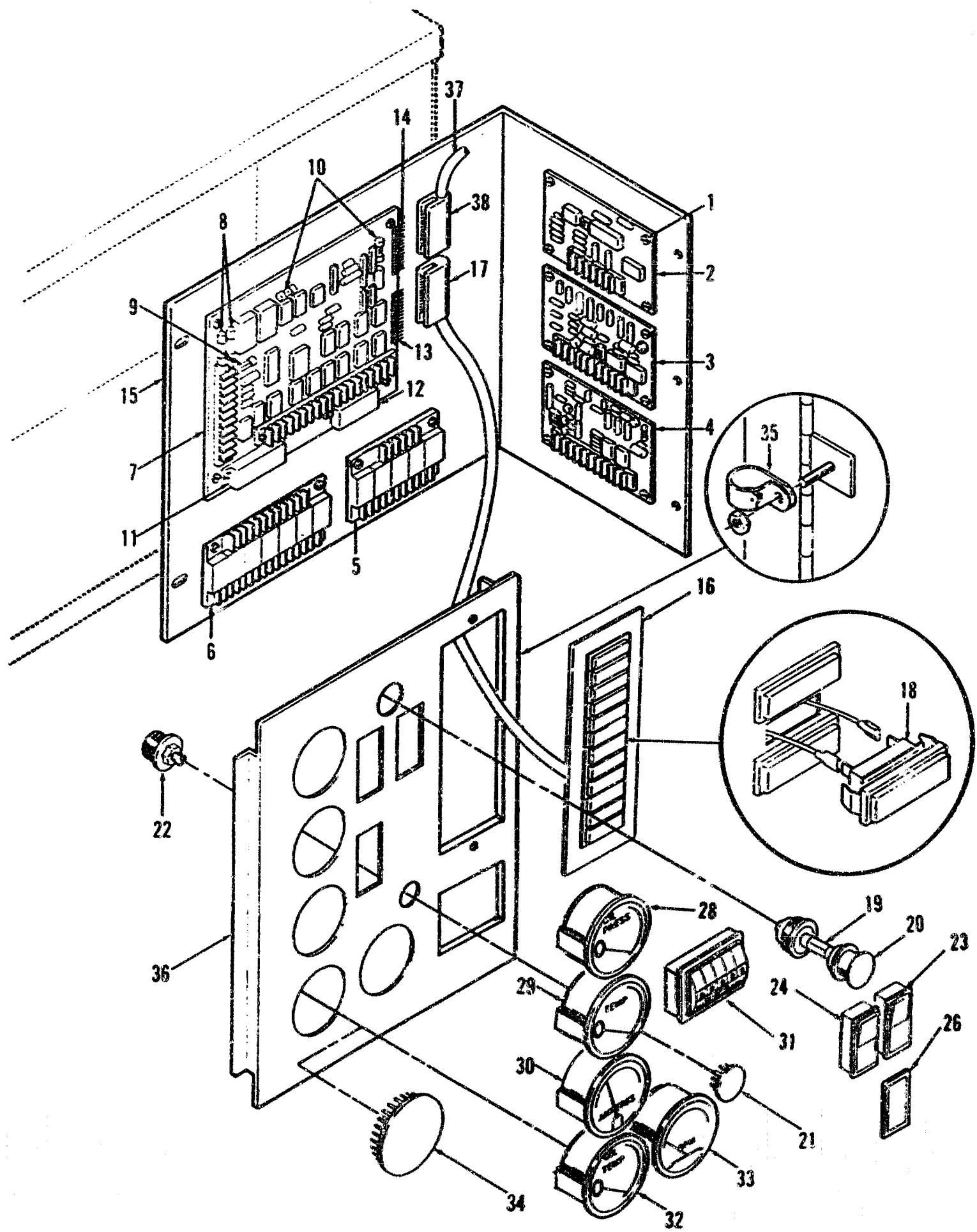
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0607	24	Screw, Machine - Oval Head (#8-32 x 3/8")	13	405-3357	1	Grille, Rear
2	870-0235	24	Nut, Self-locking - Hex (#8-32)	821-0014		4	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
3	406-0576	4	Latch (Includes Key)	870-0257		4	Nut, Self-locking - Hex (5/16-18)
4	406-0577	1	Key	14	405-3353	1	Panel, Rear
5	405-3691	1	Panel, Top	821-0014		4	Screw, self-locking - Hex Washer Head (5/16-18 x 1/2")
	821-0029	14	Screw, Self-locking - Hex Washer Head (3/8-16 x 3/4")	870-0257		4	Nut, Self-locking - Hex (5/16-18)
	870-0281	14	Nut, Self-locking - Hex Washer Head (3/8-16)	15	405-3361	1	Door, Rear
6	405-3694	1	Panel, Housing - Front	819-1083		3	Screw, Machine - Pan Head, Crossed Recessed Drive (1/4-20 x 7/16")
	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-30 x 1/2")	870-0257		4	Panel, Side/Rear
	870-0212	4	Nut, Self-locking - Hex (1/4-20)	16	405-3347	1	Screw, Self-locking - Hex Washer Head (3/8-16 x 1/2")
7	405-3692	1	Panel, Side/Front	821-0029		3	Nut, Self-locking - Hex Washer Head (3/8-16")
	870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16")	870-0281		3	Panel, Side/Rear
8	405-3693	1	Panel, Side/Front (Not Illustrated)	17	405-3375	1	Screw, self-locking - Hex Washer Head (3/8-16 x 1/2")
	870-0281	4	Nut, Self-locking - Hex Washer Head (3/8-16")	821-0029		3	Nut, Self-locking - Hex Washer Head (3/8-16")
9	405-3352	2	Door, Side (Latches NOT Included)	870-0281		3	Panel, Side/Rear
10	406-0574	4	Pivot	18	128-0110	1	Screw, self-locking - Hex Washer Head (3/8-16 x 1/2")
	815-0236	4	Screw, Thread Cutting - Hex Head (5/16-18 x 5/8")	19	128-0111	2	Foam, Insulation - Thermal (Adhesive Backed)
11	405-3358	2	Grille, Side	870-0281		3	Foam, Insulation - Thermal (Adhesive Backed)
	821-0014	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")	18	128-0110	1	
12	405-3368	2	Bracket, Support	19	128-0111	2	
	821-0014	4	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")				
	870-0257	4	Nut, Self-locking - Hex (5/16-18)				

Chassis



REF. NO.	PART NO.	QTY USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY USED	PART DESCRIPTION
1	865-0007	2	Nut, Wing (5/16-18)	18	800-0520	2	Screw, Cap - Hex Head (3/4-10 x 1")
2	850-0045	2	Washer, Lock - Spring (5/16")	19	850-0079	4	Washer, Lock - Spring (3/4")
3	526-0115	2	Washer, Flat (5/16")	20	800-0153	2	Screw, Cap - Hex Head (3/4-10 x 1-1/2")
4	520-0838	2	Stud (5/16-18 x 4-1/2"LG)	21	526-0238	2	Washer, Flat (3/4")
5	416-0338	1	Frame, Holddown - Battery	22	862-0008	2	Nut, Hex (3/4-10)
6	800-0071	6	Screw, Cap - Hex Head (7/16-14 x 1")	23	403-2505-01	1	Bracket, Mounting - Engine Right Side
7	850-0055	6	Washer, Lock - Spring (7/16")	24	403-2505-02	1	Bracket, Mounting - Engine Left Side (Not Illustrated)
8	856-0012	6	Washer, Lock - EIT (7/16")	25	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
9	800-0071	4	Screw, Cap - Hex Head (7/16-14 x 1")	26	856-0008	1	Washer, Lock - EIT (5/16")
10	526-0219	4	Washer, Flat (7/16")	27	850-0045	1	Washer, Lock - Spring (5/16")
11	850-0055	4	Washer, Lock - Spring (7/16")	28	870-0257	1	Nut, Self-locking - Hex Washer Head (5/16-18)
12	862-0004	4	Nut, Hex (7/16-14)	29	332-1473	1	Terminal, Lug - Ground
13	800-0090	4	Screw, Cap - Hex Head (1/2-13 x 1")	30	403-2511	1	Chassis
14	850-0060	4	Washer, Lock - Spring (1/2")				
15	856-0013	2	Washer, Lock - EIT (1/2")				
16	337-0090	1	Strap, Electrical - Ground				
17	402-03	4	Mount, Vibration				

Engine Control

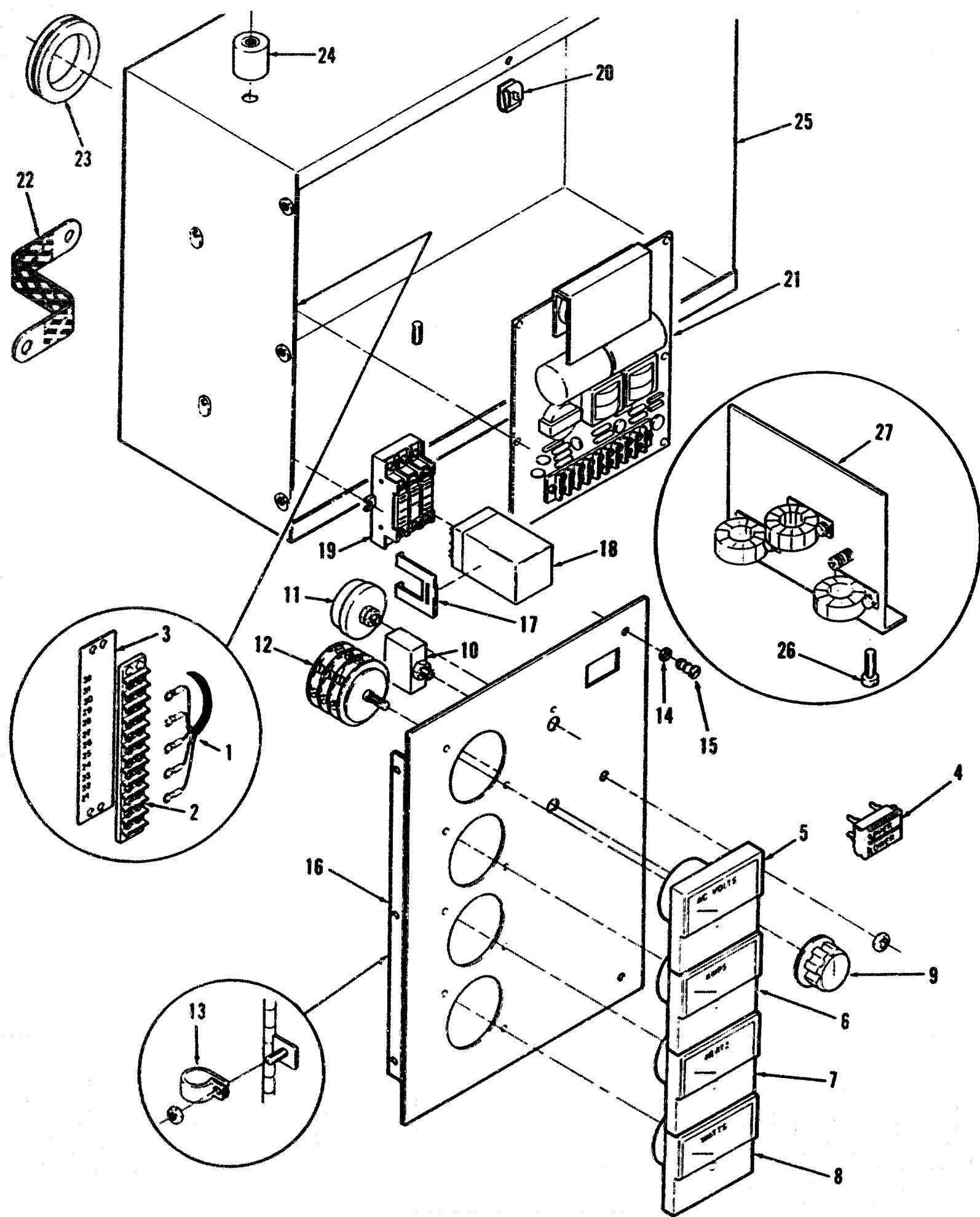


Engine Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head With IT Lock Washer (#6-32 x 1/2")	17	323-1310	1	Housing, Connector - 13 Pin (J3)
2	300-2897	1	Board - Time Delay, Start/Stop - 12 VDC (A15)	18	323-1302	13	Contact, Pin
3			Board - Magnetic Sensor, Start Disconnect/Over Speed Sensor (A16)	19	322-0369-01	1	Lamp, Incandescent - 1/3 Watt 14 VDC
	300-2901	1	Standard	20	322-0004	1	Lamp, Incandescent (OS11) 14 VDC
	300-2902	1	Precision	21	322-0361	1	Holder, Lamp
4	300-2905	1	Board - Over-Under Voltage Sensor - 12 VDC (A17)	22	517-0131	1	Plug, Button
5	300-2855	1	Board - 5 Relay 12 VDC (A13)	23	151-0402	1	Potentiometer - Speed Control (R11)
6	300-2862	1	Board - 7 Relay 12 VDC (A14)	24	308-0785	1	Switch, Push - Reset/Panel Lamp (S11)
7			Board - Engine Monitor (A11) (Includes Fuses and Connectors)	25	308-0784	1	Switch, Push - Run/Stop/ Remote (S12)
	300-2807	1	12 VDC, 2 Light	26	301-6257	1	Cover - Switch Mounting Hole
	300-2811	1	12 VDC, 12 Light	27	193-0352	1	Gauge, Pressure - Oil (M11)
8	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	28	193-0351	1	Gauge, Temperature - Water (M12)
9	321-0231	1	Fuse, Cartridge - 15 Amp (F3)	29	302-1790	1	Meter, Ampere - DC (M13)
10	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	30	302-0885	1	Meter, Totalizing - Time (M14)
11	323-1305	1	Connector - 8 Pin (P1)	31	193-0330	1	Gauge, Temperature - Oil (M15)
12	323-1303	1	Connector - 6 Pin (P2)	32	302-1873-01	1	Meter, Tach (M16)
13	323-1309	1	Connector - 13 Pin (P3)	33	517-0221	1	Plug, Button
14	323-1307	1	Connector - 12 Pin (P4)	34	332-0052	1	Clamp, Loop
15	301-8851	1	Bracket, Mounting	35	870-0131	1	Nut, Self-locking - Hex with ET Lock Washer (#10-32)
	821-0004	4	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")	36	301-9055-01	1	Door, Control With 5 Gauge Holes
16			Module, Indicator - Fault (A12) (Includes Connector)	37	301-9055-02	1	With 3 Gauge Holes
	322-0358-01	1	12 VDC, 2 Light	38	338-1817	1	Harness, Wiring - DC (Includes Connector)
	322-0360-01	1	12 VDC, 12 Light	39	323-1308	1	Housing, Connector - 12 Pin (J4)
	815-0385	2	Screw, Machine - Round Head, Black (#6-32 x 1/2")	40	323-1302	12	Contact, Pin
	870-0183	2	Nut, Self-locking - Hex with ET Lock Washer (#6-32)	41	323-1304	1	*Housing, Connector - 6 Pin (J2)
				42	323-1200	6	* Contact, Pin
				43	323-1306	1	*Housing, Connector - 8 Pin (J1)
				44	323-1200	1	* Contact, Pin

* - Parts included in Engine Wiring Harness.

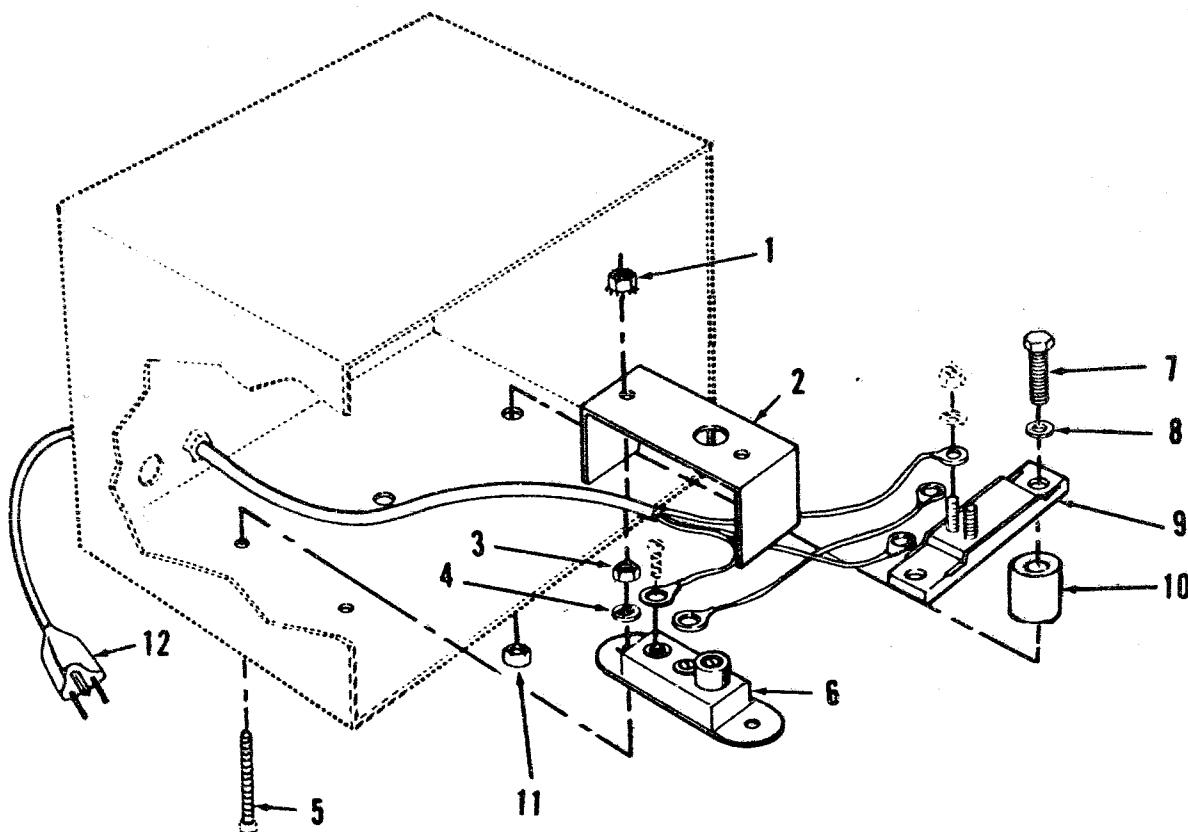
Generator Control



Generator Control

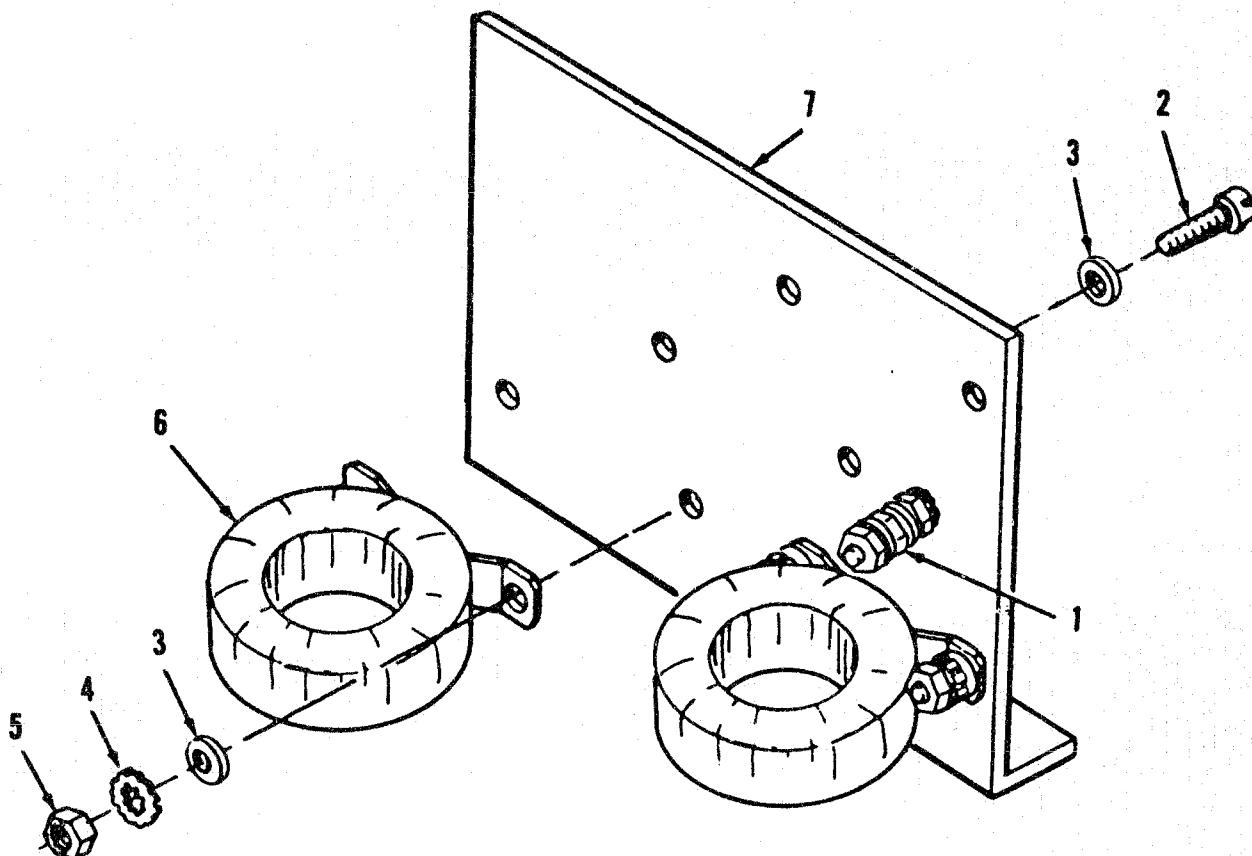
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring - (Includes Terminal Block)	17	307-1987	2	Clip - Relay
338-1818	1		Control with Meters	18	307-1058	1	Relay - 12 VDC (K21)
338-1853	1		Control without Meters	19	323-0804	1	Socket, Relay
812-0065	2		Screw, Machine - Round Head (#6-32 x 5/8")	815-0544		2	Screw, Machine - Round Head IT Lock Washer (#6-32 x 1/2")
2	332-0607	1	Block, Terminal (TB1)	20	406-0332	2	Receptacle, Fasterner
3	332-2723	1	Strip, Marker	21	300-2880	1	Regulator, Voltage (VR21)
4	322-0363	1	Light, Indicator - Dual (DS21, DS22)		815-0544	6	Screw, Machine - Round Head IT Lock Washer (#6-32 x 1/2")
5	302-1148	1	Meter, Volt (M21)	22	337-0049	1	Strap, Electrical
6	302-1685	1	Meter, Ampere (M22) 0-200/400 Amp	800-0024		1	Screw, Cap - Hex Head (5/16-18 x 1/2")
7	302-1720	1	Meter, Frequency (M23)		856-0008	1	Washer, Lock - EIT (5/16")
8		1	Meter, Watt (M24) (See Separate page for Components)	23	508-0051	1	Grommet
9	303-0032	1	Knob	24	402-0527	2	Mount, Vibration
10	320-1121	1	Breaker, Circuit (CB21)		800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8")
11	303-0261	1	Rheostat (R21)		850-0045	4	Washer, Lock - Spring (5/1
12	308-0284	1	Switch, Rotary (S21)	25	301-8065	1	Box, Control
13	332-0052	1	Clamp, Loop	26	821-0010	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2"
	870-0131	1	Nut, Self-locking - Hex with ET Lock Washer (#10-32)	27		1	Current Transformer (See Separate Page for Components)
14	406-0334	2	Clip - Fastener				
15	406-0333	2	Stud - Fastener				
16			Door, Control				
	301-9054-01	1	With 4 Meter Holes				
	301-9054-02	1	With 3 Meter Holes				
	301-9054-03	1	With No Meter Holes				
	821-0004	3	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")				

Control Heater



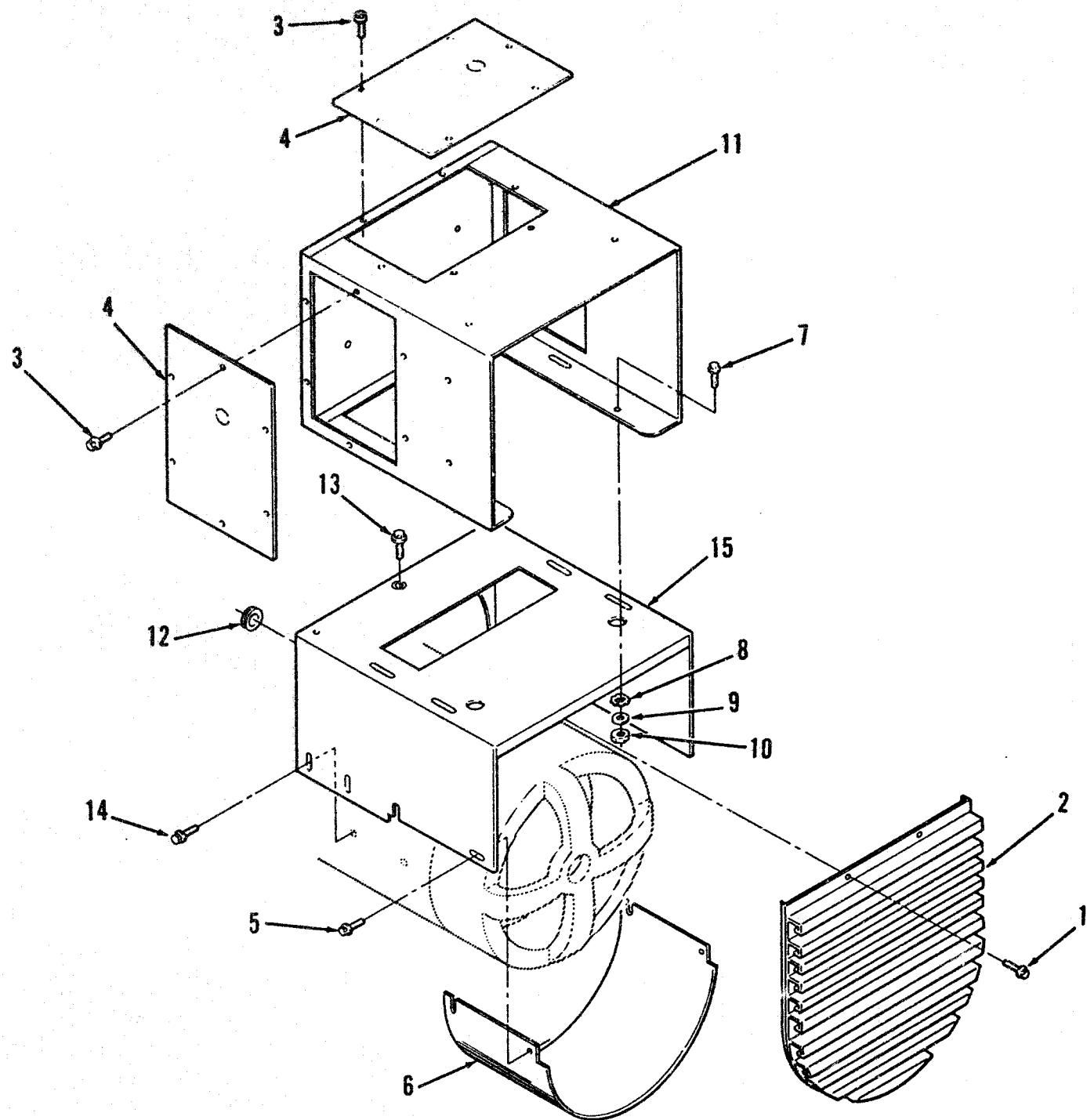
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-locking - Hex Washer Head (#6-32)	8	526-0113	2	Washer, Flat (5/16")
2	301-1886	1	Cover, Thermostat	9	333-0151	1	Heater, Electrical - 75 Watt, 120 VAC; 300 Watt, 240 VAC
3	860-0006	1	Nut, Hex (#6-32)	10	130-1107	2	Spacer, Sleeve
4	854-0006	2	Washer, Lock - IT (#6)	11	870-0257	2	Nut, Self-locking - Hex (5/16-18)
5	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")	12	335-0161	1	Cable, Electrical
6	309-0128	1	Thermostat - Adjustable				
7	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")				

Current Transformer



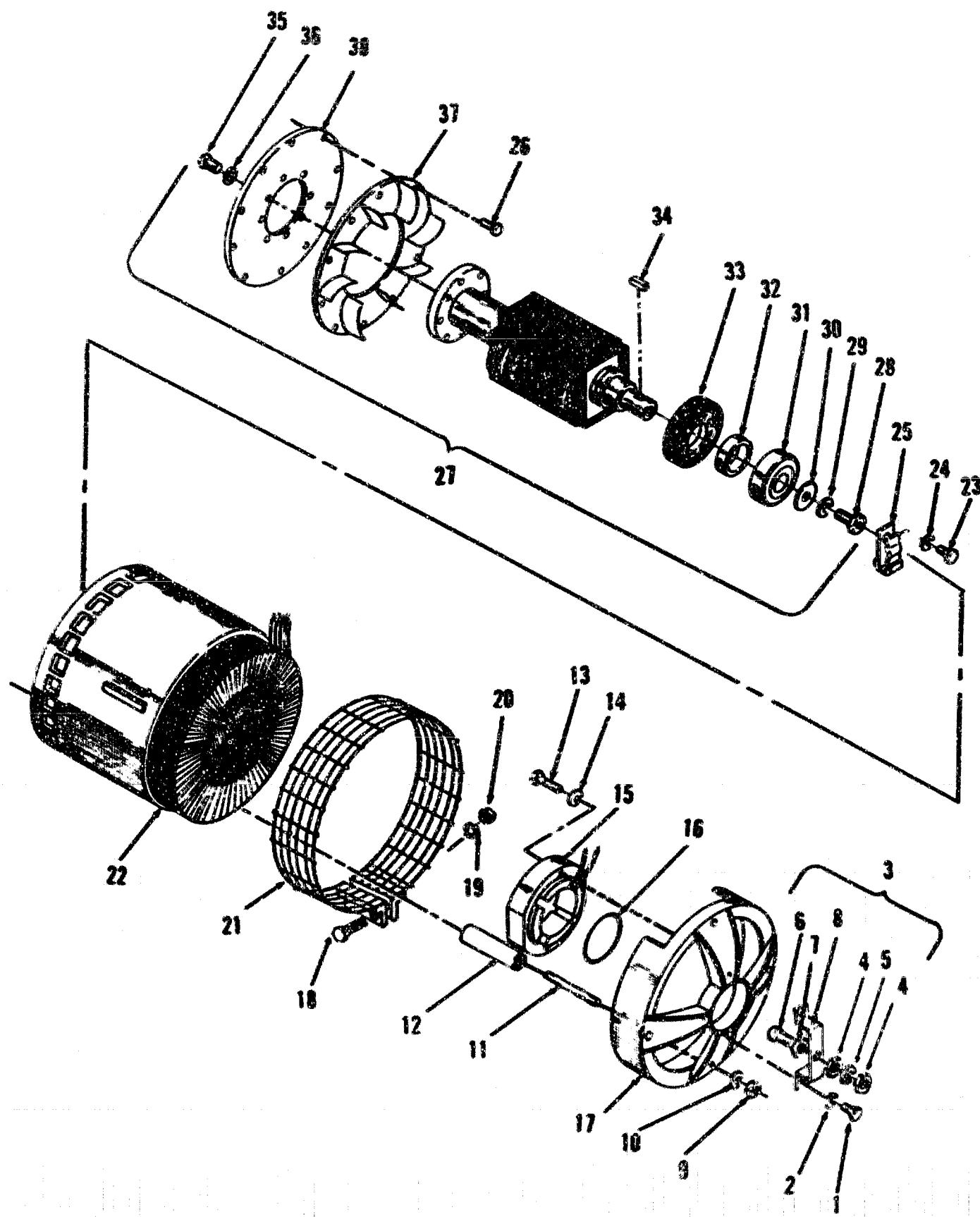
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0203	1	Terminal Screw, Machine - Round Head, Brass (#10-32 x 7/8")	3	526-0008	6	Washer, Flat (13/64" ID x 7/16" OD x 1/32" THK)
				4	856-0003	6	Washer, Lock - EIT (#10)
871-0010	3	3	Nut, Hex - Brass (#10-32)	5	870-0053	6	Nut, Hex (#10-32)
856-0003	1	1	Washer, Lock - EIT (#10)	6	302-0764	1	Bracket, Mounting -
854-0010	2	2	Washer, Lock - IT (#10)	7	302-0608	3	Transformer, Current with Mounting Feet
526-0049	2	2	Washer, Flat - Brass (13/64" ID x 7/32 "OD x 1/32" THK)				Ratio (Meter Scale) 400/5 (0-200/0-400A)
2	813-0100	6	Screw, Machine - Round Head (#10-32 x 1/2")				

Control Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-001C	8	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	8	856-0006	1	Washer, Lock - EIT (1/4")
2	234-0370	1	Grille	9	526-0018	5	Washer, Flat (17/64"ID x 5/8"OD x 1/16"THK)
3	815-0350	18	Screw, Tapping - Hex Washer Head (#10-32 x 3/8")	10	870-0212	6	Nut, Hex (1/4-20)
4	301-3156	3	Panel, Access	11	301-3155	1	Housing
5	821-0010	4	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")	12	508-0203	1	Bushing, Cable
6	234-0361	1	Wrapper - Generator	13	821-0010	1	Screw, Self-locking - Hex Washer Head (1/4-20 x 1/2")
7	821-0018	6	Screw, Self-locking - Hex Washer Head (1/4-20 x 5/8")	14	821-0014	8	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")
				15	301-3154	1	Saddle

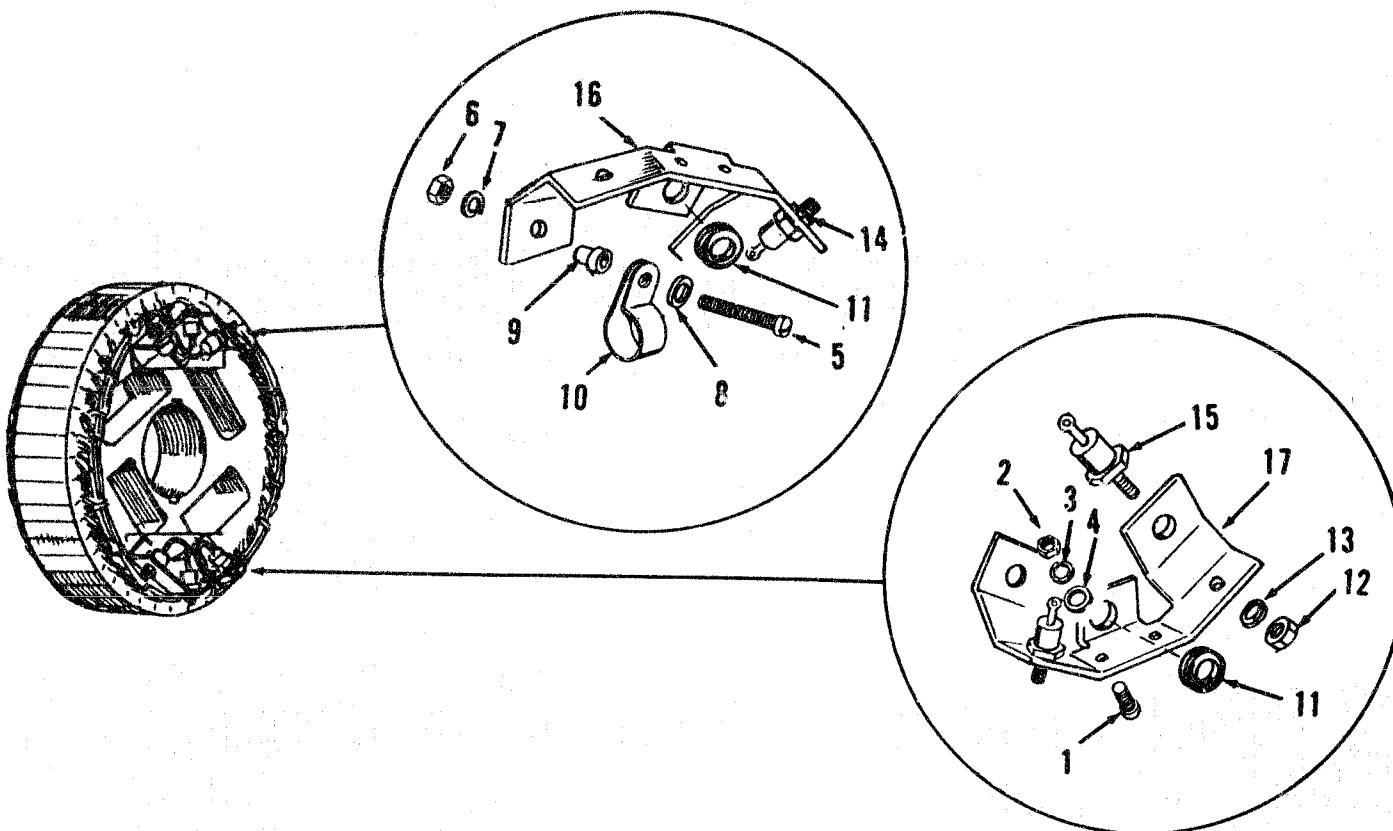
Generator



Generator

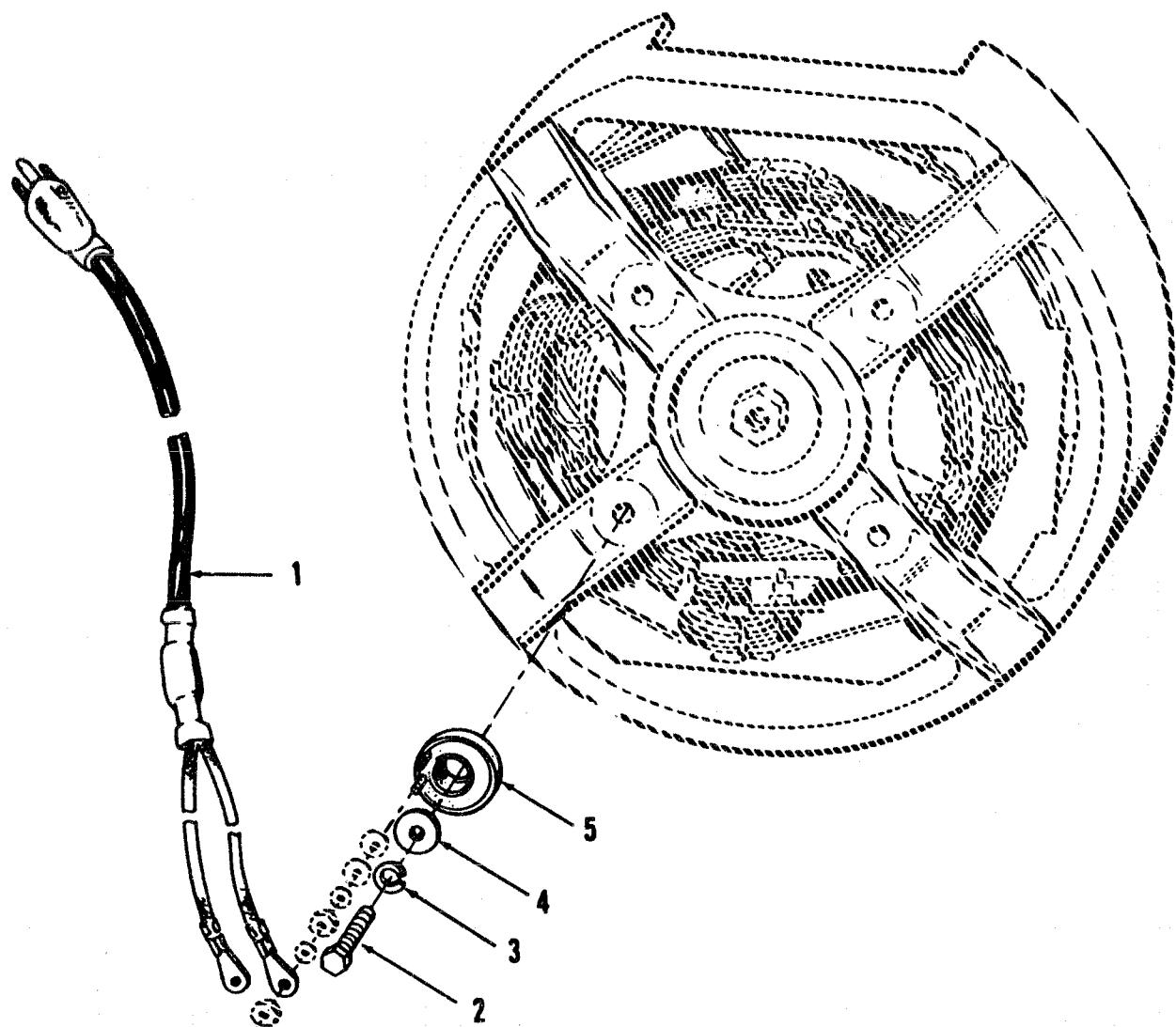
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	23	800-0048	1	Screw, Cap - Hex Head (3/8-16 x 3/4")
2	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")	24	856-0010	1	Washer, Lock - EIT (3/8")
3	150-1456	1	Contact Assembly (Includes Contact and Mounting Bracket)	25	150-0717	1	Switch
4	862-0001	2	Nut, Hex (1/4-20)	26	805-0019	8	Bolt, Place - Hex Head, Grade 8 (3/8-16 x 1-1/4")
5	853-0013	1	Washer, Lock - ET (1/4")	27	201-2674	1	Rotor Assembly, Generator (Includes Fan, Disk, Bearing, Exciter)
6	150-0723	1	Contact, Electrical	28	800-0513	1	Screw, Cap - Hex Head, Modified With Tapped Hole
7	870-0250	1	Nut, Insulated	29	850-0079	1	Washer, Lock - Spring (3/4")
8	150-1356	1	Bracket, Mounting	30	526-0238	1	Washer, Flat - Steel (13/16"ID x 2"OD x 3/16"THK)
9	862-0011	4	Nut, Hex - Grade 8 (3/8-16)	31	510-0101	1	Bearing, Ball
10	850-0050	4	Washer, Lock - Spring (3/8")	32	232-2102	1	Spacer, Sleeve
11			Stud	33			Rotor, Assembly - Exciter (See Separate Page for Components)
	520-0727	4	3/8-16 UNC x 21-7/16"	201-1739		1	Standard
	520-0863	4	3/8-16 UNC x 26-7/8"	201-1845		1	Enviromental Protected
12	503-1274	4	Hose	34	515-0145	1	Key, Machine (1/4" x 1/4" x 7/8")
13	800-0009	4	Screw, Cap - Hex Head (1/4-20 x 1-1/2")	35	805-0035	8	Bolt, Place - Hex Head, Grade 8 (5/8-11 x 1-1/2")
14	850-0040	4	Washer, Lock - Spring (1/4")	36	526-0259	8	Washer, Flat - Hardened (11/16"ID x 1-3/8"OD x 7/64"THK)
15			Stator, Exciter	37	205-0089	1	Fan, Cooling
	220-2353	1	Standard	38	232-2078	1	Disk, Drive
	220-1774	1	Enviromental Protected				
16	509-0125	1	Seal, O-Ring				
17	211-0185	1	Bell, End				
18	114-0023	2	Screw, Cap - Hex Head (1/4-20 x 1-1/4")				
19	850-0040	2	Washer, Lock - Spring (1/4")				
20	862-0001	2	Nut, Hex (1/4-20)				
21	234-0368	1	Screen, Air				
22			Stator Assembly, Generator				
	220-2002	1	80 kW, Code 515				
	220-1459	1	100 kW, Code 15				

Exciter Rotor Components



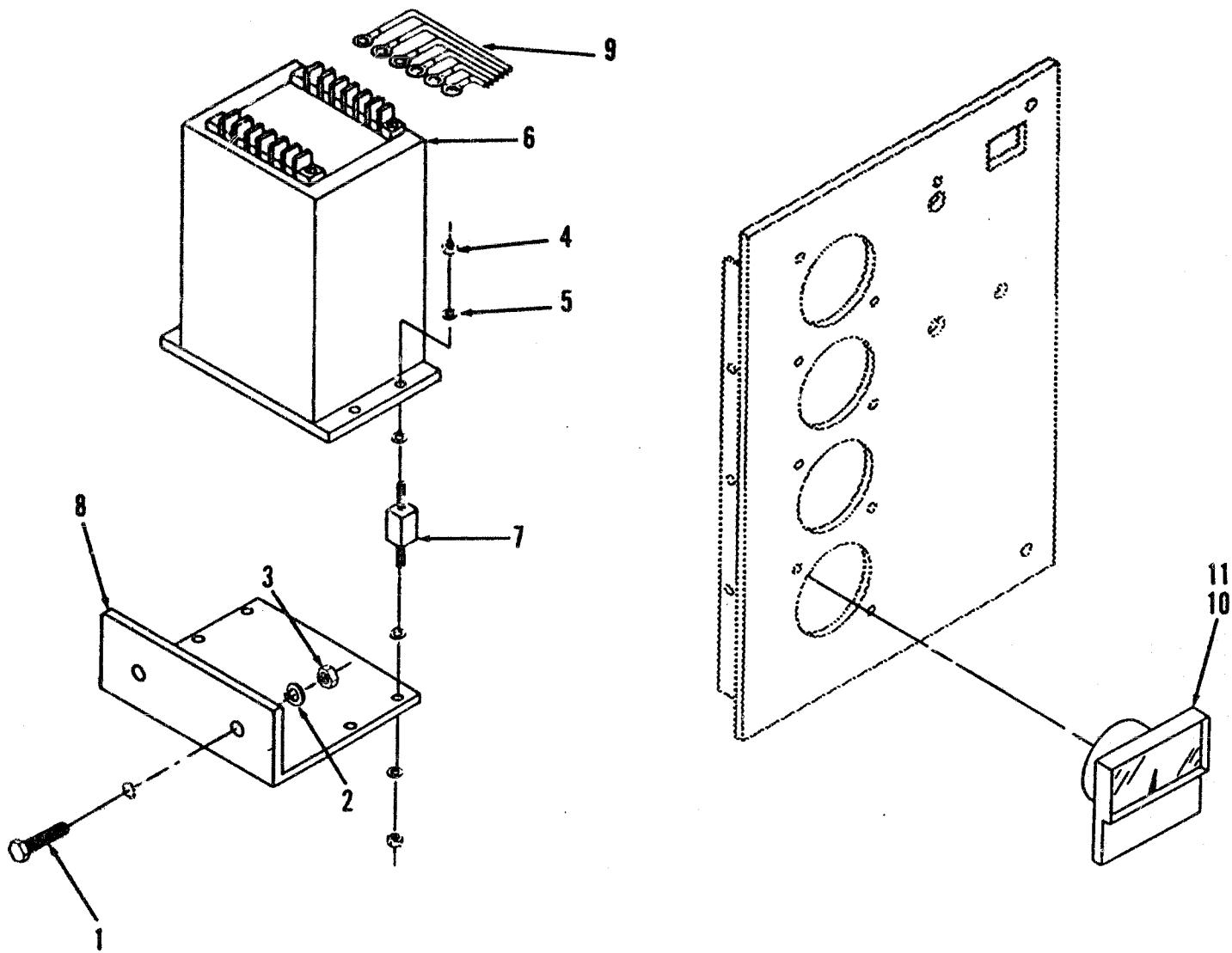
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Rotor, Exciter (Includes Heat Sinks and Diodes)	9	508-0187	4	Spacer, Stepped
201-1739	1	1	Standard	10	332-0050	2	Clamp, Loop
201-1845	1	1	Environmental Protected	11	508-0093	2	Grommet
1	813-0100	2	Screw, Machine - Round Head (#10-32 x 1/2")	12	870-0053	6	Nut, Hex (#10-32)
2	870-0053	2	Nut, Hex (#10-32)	13	850-0030	6	Washer, Lock - Spring (#10)
3	850-0030	2	Washer, Lock - Spring (#10)	14			Rectifier - Positive CR1, CR2, CR3
4	526-0008	2	Washer, Flat (13/64"ID x 7/16"OD x 1/32"THK)	15	358-0097	3	Standard
5	813-0110	4	Screw, Machine - Round Head (#10-32 x 2")	15	358-0044	3	Environmental Protected
6	870-0053	4	Nut, Hex (#10-32)	15	358-0096	3	Rectifier - Negative CR4, CR5, CR6
7	850-0030	4	Washer, Lock - Spring (#10)	16	358-0043	3	Standard
8	526-0009	4	Washer, Flat (7/32"ID x 1/2"OD x 1/16"THK)	16	363-0054	1	Environmental Protected
				17	363-0055	1	Sink, Heat
							Sink, Heat

Generator Heater



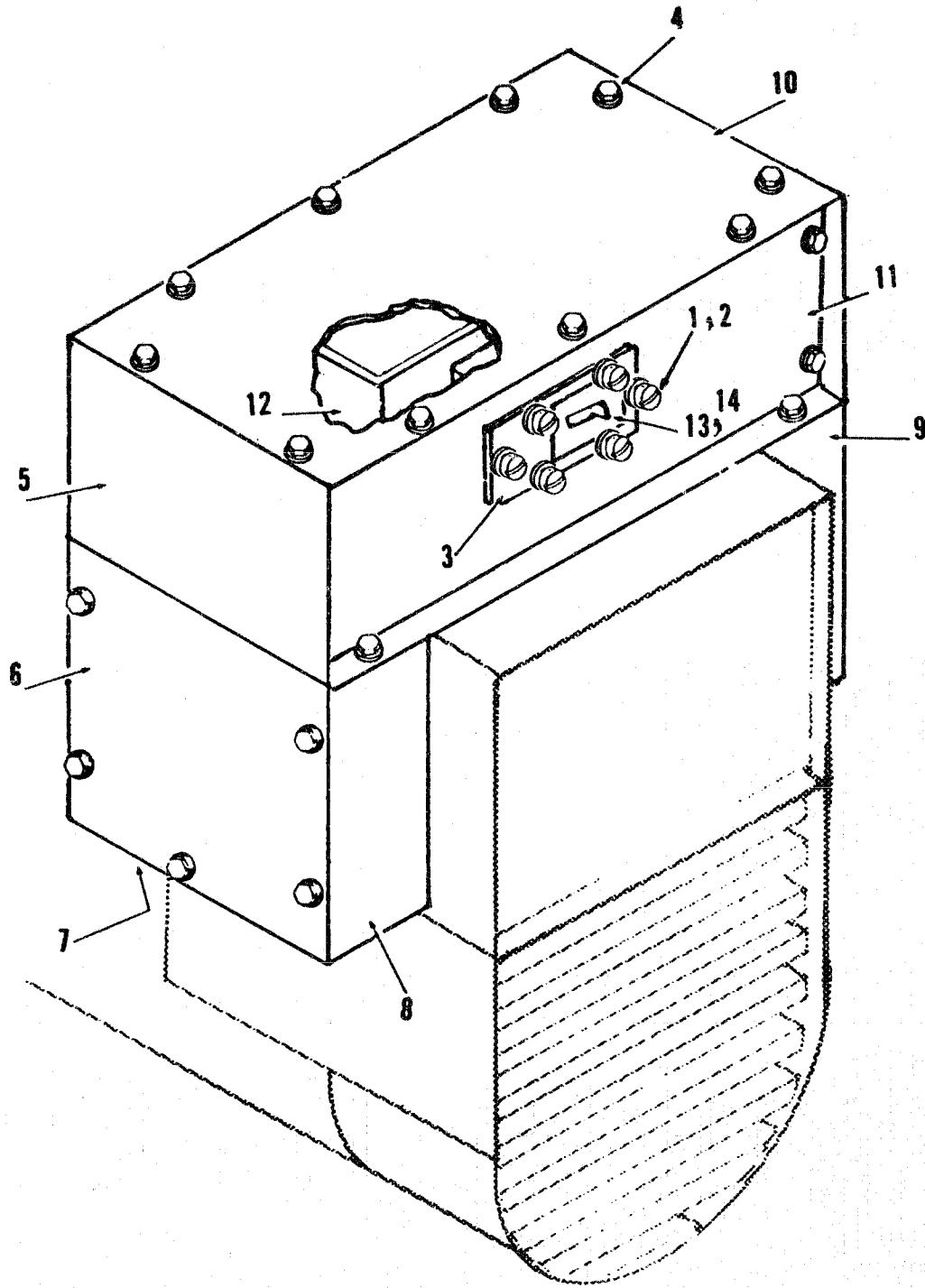
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cable, Electrical (Includes Thermostat)	3	850-0038	1	Washer, Lock - Spring (1/4")
	335-0146	1	120 VAC	4	526-0158	1	Washer, Flat (17/64"ID x 1"OD x 1/8"THK)
	335-0147	1	240 VAC	5			Heater, Electrical
2	800-0004	1	Screw, Cap - Hex Head (1/4-20 x 5/8")	333-0059		1	125 Watt, 120 VAC
				333-0192		1	200 Watt, 240 VAC

Watt Meter



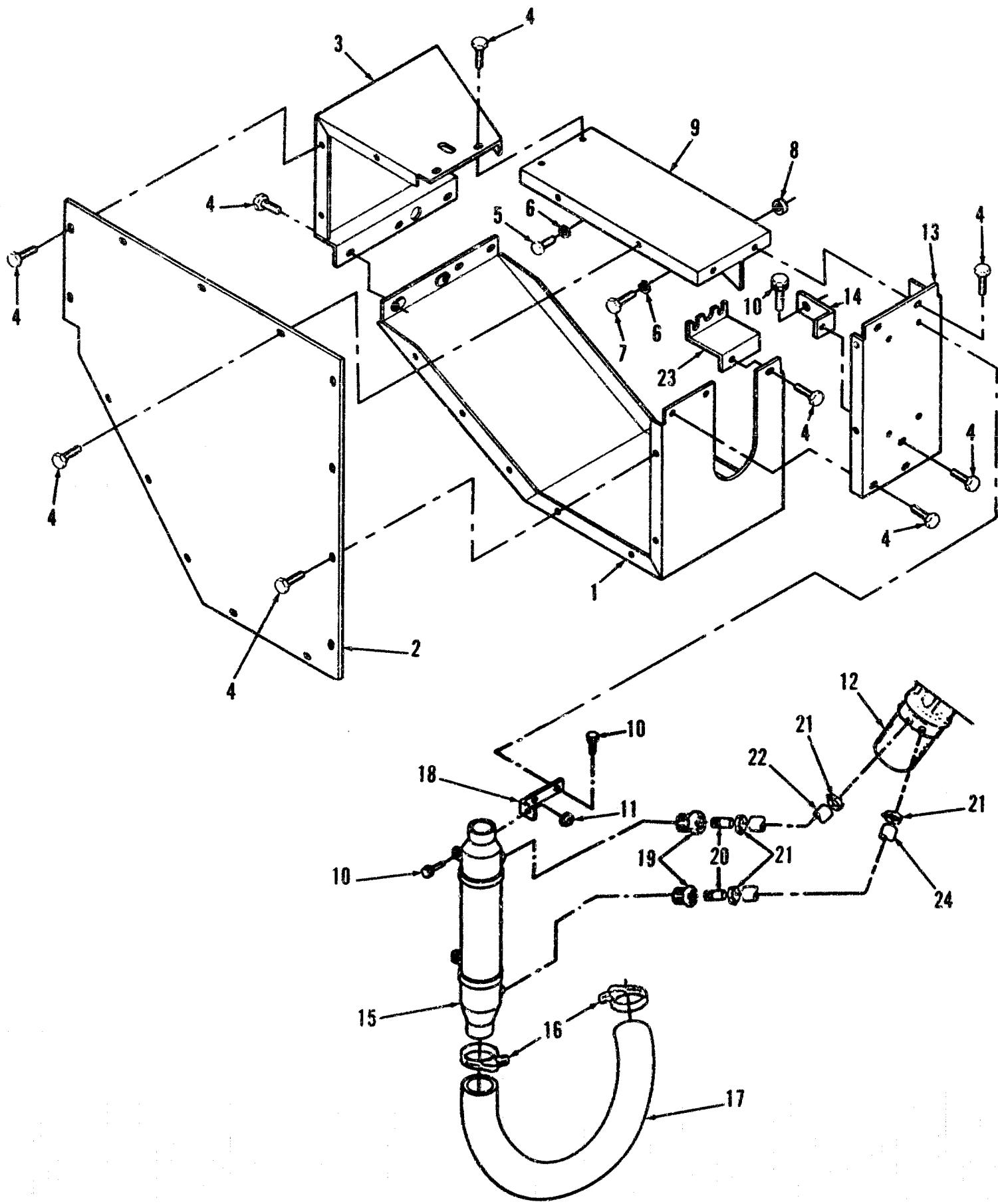
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0017	2	Screw, Self-locking - Hex Washer Head (5/16-18 x 1/2")	7	402-0354	4	Mount, Vibration
2	850-0045	2	Washer, Lock - Spring (5/16")	8	301-6987	1	Bracket, Mounting
3	862-0014	2	Nut, Hex (5/16-18)	9	338-1936	1	Harness, Wiring
4	860-0008	8	Nut, Hex (#8-32)	10	302-1722	1	Meter, Watt
5	856-0002	16	Washer, Lock - EIT (#8)	11	302-1721-05	1	Dial - Scale 0-115 kW
6	302-1082	1	Transducer, Watt 3 Phase, 60 Hertz				
	302-1083	1	3 Phase, 50 Hertz				

Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0096	6	Screw, Machine - Round Head (#10-32 x 1/4")	11	301-9251	1	Panel, Front
2	850-0030	6	Washer, Lock - Spring (#10)	12	301-9716	1	Bracket, Mounting
3	301-9721	1	Cover, Circuit Breaker	13	812-0156	6	Screw, machine - Round Head (1/4-20 x 1-1/2")
4	815-0350	52	Screw, Self-locking - Hex Washer Head (#10-32 x 3/8")	14	320-1458-30	1	Breaker, Circuit 125 Amp 3 Phase
5	301-9258	1	Wrapper	320-1458-31	1	150 Amp 3 Phase	
6	301-9255	2	Cover, Side	320-1512-08	1	200 Amp 1 Phase	
7	301-9254	2	Panel, Bottom	320-1459-49	1	200 Amp 3 Phase	
8	301-9253	2	Panel, End	320-1460-07	1	300 Amp 3 Phase	
9	301-9252	2	Panel End	320-1513-08	1	350 Amp 1 Phase	
10	301-9257	1	Cover, Top	320-1460-08	1	350 AMP 3 Phase	

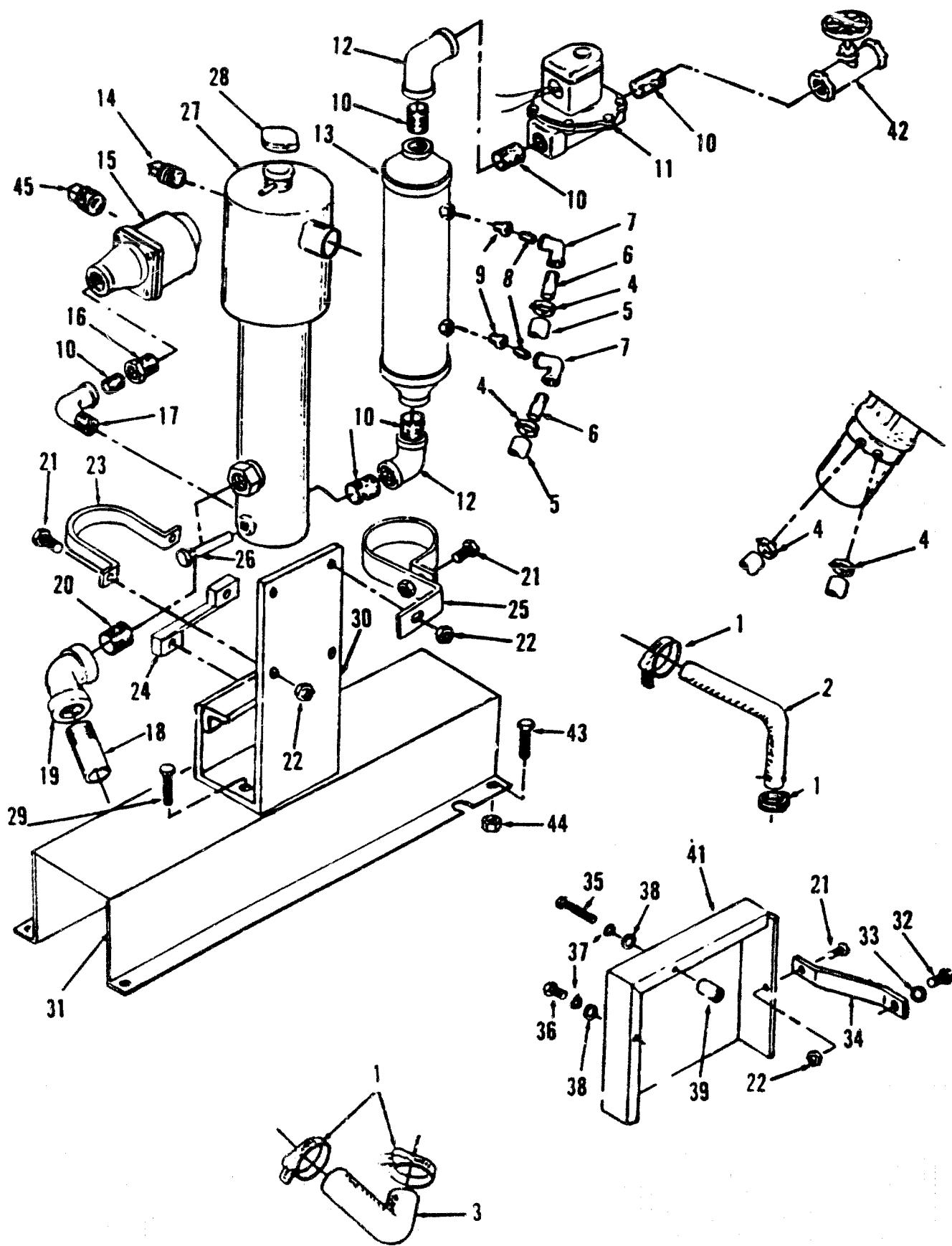
Remote Radiator



Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3056	1	Guard, Belt	12	102-1097	1	Adapter, Cooler - Oil
2	130-3057	1	Cover, Guard - Belt	13	130-3054	1	Guard, Belt
3	130-3053	1	Guard, Belt	14	130-3003	1	Bracket, Guard - Belt
4	821-0010	26	Screw, Cap - Hex Head (1/4-20 x 1/2")	15	102-1238	1	Cooler, Oil
5	800-0050	1	Screw, Cap - Hex Head (3/8-16 x 1")	16	503-0279	2	Clamp, Hose
6	850-0050	2	Washer, Lock - Spring (3/8)	17	503-0753	1	Hose
7	850-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	18	102-1244	2	Bracket, Cooler - Oil
8	191-0864	1	Spacer	19	505-0018	2	Bushing, Reducer (1/2 x 1/4)
9	130-3055	1	Guard, Belt	20	505-0302	2	Nipple, Half (1/4 x 1-1/2")
10	821-0029	7	Screw, Self-Locking - Hex Washer Head (3/8-16 x 3/4")	21	503-0446	4	Clamp, Hose
11	870-0281	2	Nut, Self-Locking - Hex Washer Head (3/8-16)	22	503-1101	1	Hose, Oil (24")
				23	130-3002	1	Bracket, Guard - Belt
				24	503-1101	1	Hose, Oil (12")

Cooling System Heat Exchanger ENTX



**Cooling System
Heat Exchanger
ENTX**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0274	4	Clamp, Hose	23	130-0802	2	Strap, Holdown
2	503-0846	1	Hose, Rubber - Lower (2"ID x 20")	24	130-1112	1	Strap, Support
3	503-0753	1	Hose, Rubber - Upper (2"ID x 24")	25	102-1159	1	Support, Cooler - Oil
4	503-0446	4	Clamp, Hose	26	130-1340	1	Pencil, Zinc (3/8"NPT)
5	503-1099	2	Hose, Rubber (1/2"ID x 29")	27	130-2162	1	Exchanger, Head (Includes Cap)
6	505-0302	2	Nipple, Pipe - Half (1/4"NPT x 1-1/2")	28	130-0661	1	Cap, Exchanger - Heat (7 PSI)
7	505-0038	2	Elbow, Pipe - 90° (1/4"NPT)	29	821-0016	3	Screw, Hex Washer Head - Self-Locking (5/16-18 x 3/4")
8	505-0099	2	Nipple, Pipe - Close (1/4"NPT x 7/8")	30	130-1110	1	Bracket, Mounting
9	505-0018	2	Bushing, Reducer - Hex (1/2"NPT x 1/4"NPT)	31	130-3151	1	Bracket, Mounting - Heat Exchanger
10	505-0102	6	Nipple, Pipe (3/4"NPT x 1-3/8")	32	800-0069	1	Screw, Cap - Hex Head (7/16-14 x 3/4")
11	307-0835	1	Valve, Solenoid - 12VDC	33	850-0055	1	Washer, Lock - Spring (7/16")
12	505-0132	2	Elbow, Pipe - 90° (3/4"NPT)	34	130-1008	1	Strap
13	102-1114	1	Cooler, Oil	35	800-0056	1	Screw, Cap - Hex Head (3/8-16 x 2-1/2")
14	505-0130	2	Plug, Pipe (3/4"NPT)	36	800-0051	1	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
15	505-1301	1	Valve, Control - Temperature Regulating (1"NPT)	37	850-0050	2	Washer, Lock - Spring (3/8")
16	505-0129	1	Bushing, Reducer - Hex (1"NPT x 3/4"NPT)	38	526-0174	2	Washer, Flat (3/8")
17	505-0051	1	Elbow, Pipe - Street (90°) (3/4"NPT)	39	130-1009	1	Spacer, Sleeve
18	505-0385	1	Nipple, Pipe - Half (1-1/2"NPT x 2")	40	130-2244	1	Spacer, Sleeve
19	505-0043	1	Elbow, Pipe - 90° (1-1/2"NPT)	41	130-1050	1	Guard, Belt
20	505-0109	1	Nipple, Pipe (1-1/2"NPT x 2-1/5")	42	504-0046	1	Valve, Globe (3/4"NPT)
21	821-0011	7	Screw, Hex Washer Head - Self-Locking (1/4-20 x 7/8")	43	148-0274	2	Bracket, "J"
22	870-0212	7	Nut, Hex Washer Head - Self-Locking (1/4-20)	44	821-0029	4	Screw, Hex Head - Self-Locking (3/8-16 x 3/4")
				45	870-0281	4	Nut, Lock (3/8-16)
				46	505-0140	1	Plug, Square Head (1")

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
102-1097	11	130-3056	45	191-0864	19	300-2807	31
102-1097	45	130-3057	45	191-0864	45	300-2811	31
102-1113	11	140-1260	17	191-0943	13	300-2855	31
102-1238	45	140-1548	17	191-0948	13	300-2862	31
102-1244	45	140-1724	4	191-0950	13	300-2880	33
102-1320	11	140-1837	4	191-0953	13	300-2897	31
104-0723	9	140-2114	17	191-0954	13	300-2901	31
104-1097	9	145-0532	17	191-0957	13	300-2902	31
104-1673	19	145-0533	23	191-0963	13	300-2905	31
114-0023	15	145-0534	11	191-1099	12	301-1886	34
114-0023	39	145-0535	11	191-1388	12	301-3154	36
115-0025	15	145-0540	17	191-1388	13	301-3155	36
121-0036	11	145-0575	17	191-1390	13	301-3156	36
121-0037	11	145-0576	17	191-1522	13	301-6257	31
122-0193	11	145-0577	17	191-1693	13	301-6987	42
127-0376	17	145-0578	17	191-1702	13	301-8065	33
127-0376	23	145-0583	17	191-1703	13	301-8851	31
127-0380	17	145-0585	17	191-1710	13	301-9054-01	33
127-0380	23	145-0586	17	191-1711	13	301-9054-02	33
128-0110	27	145-0587	17	191-1722	13	301-9054-03	33
128-0111	27	145-0590	17	191-1792	12	301-9055-01	31
130-0968	19	148-0601	17	191-1981	12	301-9055-02	31
130-0971	19	150-0717	39	191-1983-01	12	301-9251	43
130-0973	19	150-0723	39	191-2028	12	301-9252	43
130-0986	19	150-1356	39	191-2031	12	301-9253	43
130-1024	19	150-1456	39	191-2032	12	301-9254	43
130-1107	34	150-1995	15	193-0244	7	301-9255	43
130-1805	12	150-2145	15	193-0247	7	301-9257	43
130-1988	19	150-2163	15	193-0249	9	301-9258	43
130-1997	19	151-0402	31	193-0330	31	301-9716	43
130-1999	19	151-0433	15	193-0351	31	301-9721	43
130-2344	19	151-0624	15	193-0352	31	302-0608	35
130-2850	21	151-0625	15	201-1739	39	302-0764	35
130-2851	21	151-0629	15	201-1739	40	302-0885	31
130-2982	19	154-2499	23	201-1845	39	302-1082	42
130-2983	19	154-2500	23	201-1845	40	302-1083	42
130-2984	19	154-2528	23	201-2674	39	302-1148	33
130-2987	19	155-1430	25	205-0089	39	302-1685	33
130-2991	19	155-1886	23	211-0185	39	302-1720	33
130-2996	19	155-2062-07	25	220-1459	39	302-1721-05	42
130-2997	19	155-2105	25	220-1774	39	302-1722	42
130-2998	19	155-2193	23	220-2002	39	302-1790	31
130-3001	19	155-2195	25	220-2353	39	302-1873-01	31
130-3002	19	155-2196-01	25	226-3413	7	303-0032	33
130-3002	45	155-2197	25	231-0260	9	303-0261	33
130-3003	19	155-2198	25	232-2078	39	307-1058	33
130-3003	45	191-0101	12	232-2102	39	307-1164	21
130-3053	45	191-0661	13	234-0361	36	307-1166	7
130-3054	45	191-0662	13	234-0368	39	307-1987	33
130-3055	45	191-0773	7	234-0370	36	308-0284	33

Numerical Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
308-0784	31	332-0050	40	405-3691	27	505-0007	11
308-0785	31	332-0052	31	405-3692	27	505-0007	17
309-0128	34	332-0052	33	405-3693	27	505-0011	4
309-0178	9	332-0149	21	405-3694	27	505-0017	4
309-0179	9	332-0607	33	406-0332	33	505-0018	11
309-0269	9	332-1281	9	406-0333	33	505-0018	45
309-0304	21	332-1292	9	406-0334	33	505-0057	7
309-0476	19	332-1473	28	406-0574	27	505-0057	23
309-0477	19	332-2723	33	406-0576	27	505-0102	17
309-0478	19	333-0059	41	406-0577	27	505-0104	7
309-0479	19	333-0141	21	416-0019	7	505-0129	17
309-0544	7	333-0146	21	416-0338	28	505-0130	9
309-0545	7	333-0147	21	416-0530	7	505-0135	11
312-0201	12	333-0148	21	502-0002	11	505-0302	11
320-1121	33	333-0151	34	502-0003	11	505-0302	45
320-1456-30	43	333-0158	21	502-0058	7	505-0387	25
320-1458-31	43	333-0167	21	502-0156	21	505-0455	21
320-1459-49	43	333-0192	41	502-0613	21	505-0499	9
320-1460-07	43	335-0146	41	502-0942	21	505-0763	7
320-1460-08	43	335-0147	41	502-1012	4	505-1369	23
320-1512-08	43	335-0161	34	502-1013	11	508-0015	9
320-1513-08	43	337-0049	33	503-0032	11	508-0051	33
321-0094	31	337-0090	28	503-0183	21	508-0093	40
321-0231	31	338-1817	31	503-0279	45	508-0187	40
321-0270	31	338-1818	33	503-0386	21	508-0203	36
322-0004	31	338-1853	33	503-0446	45	509-0125	39
322-0358-01	31	338-1936	42	503-0547	4	509-0165	17
322-0360-01	31	338-2027	7	503-0547	11	510-0101	39
322-0361	31	338-2628	7	503-0571	19	511-0092	12
322-0363	33	358-0043	40	503-0753	45	511-0153	19
322-0369-01	31	358-0044	40	503-0998	17	515-0093	13
323-0804	33	358-0096	40	503-1093	4	515-0145	39
323-0957	21	358-0097	40	503-1097	11	517-0131	31
323-1200	7	363-0054	40	503-1099	11	517-0221	31
323-1200	31	363-0055	40	503-1101	45	520-0727	39
323-1302	31	370-4055	12	503-1101	45	520-0838	28
323-1303	31	402-0354	42	503-1133	4	520-0863	39
323-1304	7	402-0371	28	503-1133	11	520-0925	23
323-1304	31	402-0527	33	503-1141	19	520-0967	15
323-1305	31	403-2505-01	28	503-1188	11	526-0008	35
323-1306	7	403-2505-02	28	503-1274	39	526-0008	40
323-1306	31	403-2511	28	503-1506	4	526-0009	40
323-1307	31	405-3347	27	503-1507	17	526-0018	21
323-1308	31	405-3352	27	503-1508	17	526-0018	36
323-1309	31	405-3353	27	504-0003	19	526-0022	23
323-1310	31	405-3357	27	504-0003	21	526-0029	12
330-0004	21	405-3358	27	504-0030	11	526-0032	23
330-0005	21	405-3361	27	505-0004	21	526-0035	19
331-0027	21	405-3368	27	505-0007	7	526-0049	35
332-0014	21	405-3375	27	505-0007	9	526-0113	34

Numerical Index

Part No.	Page						
526-0115	28	812-0156	43	850-0050	11	870-0048	25
526-0158	41	813-0096	43	850-0050	12	870-0053	35
526-0219	28	813-0098	15	850-0050	15	870-0053	40
526-0238	28	813-0100	35	850-0050	19	870-0131	31
526-0238	39	813-0100	40	850-0050	23	870-0131	33
526-0259	39	813-0110	40	850-0050	39	870-0183	31
526-2106	12	815-0203	35	850-0050	45	870-0183	34
800-0003	39	815-0236	27	850-0051	45	870-0196	9
800-0004	41	815-0350	36	850-0055	7	870-0212	15
800-0006	21	815-0350	43	850-0055	9	870-0212	27
800-0009	39	815-0385	31	850-0055	15	870-0212	36
800-0024	33	815-0544	31	850-0055	28	870-0235	27
800-0026	11	815-0544	33	850-0060	15	870-0250	39
800-0026	28	815-0607	27	850-0060	19	870-0257	11
800-0028	19	819-1083	27	850-0060	28	870-0257	27
800-0029	17	821-0004	31	850-0070	13	870-0257	28
800-0029	19	821-0004	33	850-0079	28	870-0257	34
800-0034	34	821-0010	27	850-0079	39	870-0281	19
800-0036	25	821-0010	33	850-2005	12	870-0281	23
800-0039	19	821-0010	36	850-2006	12	870-0281	27
800-0045	33	821-0010	45	851-0039	12	870-0281	45
800-0048	9	821-0014	27	853-0013	39	870-2160	12
800-0048	39	821-0014	36	853-0018	9	871-0010	35
800-0050	11	821-0016	11	854-0006	34		
800-0050	12	821-0016	19	854-0010	35		
800-0050	45	821-0017	42	856-0002	42		
800-0051	19	821-0018	7	856-0003	35		
800-0052	12	821-0018	19	856-0006	36		
800-0052	23	821-0018	36	856-0008	28		
800-0054	15	821-0028	19	856-0008	33		
800-0071	7	821-0029	9	856-0010	39		
800-0071	28	821-0029	19	856-0012	28		
800-0072	9	821-0029	21	856-0013	7		
800-0072	15	821-0029	27	856-0013	28		
800-0090	28	821-0029	45	860-0006	34		
800-0091	15	850-0028	12	860-0008	42		
800-0153	28	850-0030	15	860-0011	21		
800-0513	39	850-0030	21	860-2008	12		
800-0520	28	850-0030	40	862-0001	13		
800-0574	23	850-0030	43	862-0001	21		
800-1507	23	850-0038	41	862-0001	39		
800-2058	12	850-0040	19	862-0003	23		
800-2097	12	850-0040	39	862-0004	28		
805-0019	39	850-0045	11	862-0005	12		
805-0035	39	850-0045	17	862-0008	28		
809-0035	9	850-0045	19	862-0011	39		
812-0065	33	850-0045	23	862-0014	42		
812-0070	34	850-0045	28	862-0016	19		
812-0075	7	850-0045	33	865-0007	28		
812-0100	21	850-0045	42	868-0007	13		